

Storm Data and Unusual Weather Phenomena

September 2002

September 2002									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
ALABAMA, North Central									
ALZ006		Madison							
10	1500CST				0	0	0	0	Excessive Heat
The afternoon high temperature measured at the Huntsville International Airport was 99 degrees. This temperature established a new record high temperature. The previous record was 94 degrees last set in 1990.									
ALZ002		Colbert							
10	1500CST				0	0	0	0	Excessive Heat
The high temperature observed at the Muscle Shoals Municipal Airport was 97 degrees. This temperature established a new record high.									
ALZ006		Madison							
11	1500CST				0	0	0	0	Excessive Heat
The high temperature observed at the Huntsville International Airport was 96 degrees. This temperature established a new record high temperature. The previous record was 95 degrees last set in 1983.									
ALZ019		Calhoun							
11	1500CST				0	0	0	0	Excessive Heat
The afternoon high temperature measured at the Anniston Municipal Airport was 97 degrees. This temperature established a new record high.									
ALZ044		Montgomery							
11	1500CST				0	0	0	0	Excessive Heat
The high temperature observed at Dannelly Field was 99 degrees. This temperature established a new record high. The previous record was 98 degrees set back in 1962.									
ALZ044		Montgomery							
12	1500CST				0	0	0	0	Excessive Heat
The high temperature measured at Dannelly Field was 98 degrees. This temperature tied the previous record high.									
Lamar County									
Vernon									
16	1317CST				0	0	3K	0	Thunderstorm Wind (G50)
Trees and power lines were blown down on SR 17 and on SR 18 near Vernon.									
Madison County									
1.7 S Meridianville									
18	1340CST		0.1	20	0	0	0	0	Tornado (F0)
	1341CST								
A small tornado touched down briefly in a cotton field just southwest of the intersection of Countess Road and US 231 just south of Meridianville. A storm spotter video taped the funnel cloud just prior to the touchdown. Beg: 34 49.627/86 34.441 End: 34 49.686/86 34.360									
Madison County									
Monrovia									
18	1600CST				0	0	8K	0	Thunderstorm Wind (G50)
Trees were blown down in and near Monrovia. One tree fell onto a vehicle causing minor damage.									
Morgan County									
Decatur									
20	1900CST				0	0	15K	0	Lightning
Lightning struck two homes in the Decatur area. Both homes caught on fire and sustained varying degrees of damage. No injuries were reported.									
Cullman County									
Bremen									
20	1935CST				0	1	0	0	Lightning
One person was struck by lightning at Cold Springs High School. The extent of injuries was unknown.									
Clay County									
Countywide									
22	0200CST				0	0	10K	0	Flash Flood
	0430CST								
Randolph County									
Countywide									
22	0200CST				0	0	200K	0	Flash Flood
	0430CST								
Jefferson County									
Countywide									
22	0300CST				0	0	5.8M	0	Flash Flood
	0900CST								
Shelby County									
Countywide									
22	0400CST				0	0	100K	0	Flash Flood
	0930CST								

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ALABAMA, North Central

St. Clair County

Countywide	22	0400CST 0600CST			0	0	20K	0	Flash Flood
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Talladega County

Countywide	22	0400CST 0900CST			0	0	20K	0	Flash Flood
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Chilton County

Countywide	22	0630CST 0930CST			0	0	10K	0	Flash Flood
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Tuscaloosa County

Countywide	22	0630CST 0900CST			0	0	50K	0	Flash Flood
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Very heavy rain fell across central Alabama during the early morning hours. The heaviest rain was measured generally from Tuscaloosa to Birmingham to Wedowee. Radar-estimated rainfall amounts averaged from 3 to 5 inches with many localized areas over 7 inches in only a few hours. The hardest hit area was the Birmingham Metropolitan area where the damage stretched from Bessemer to Pelham to Mountain Brook to Vestavia Hills. The following events were reported: numerous high water rescues were performed by area fire departments, one junior high school sustained major damage, one home was totally destroyed, 100 homes suffered varying degrees of damage, 22 apartments were flooded, one bowling alley sustained major damage, at least 20 businesses were damaged, a few bridges were washed out, a few culvert pipes were washed away, trees and power lines fell down due to the saturated ground, numerous roads were temporarily closed and impassable, and over 200 automobiles suffered significant damage in Vestavia Hills. No injuries were reported.

Some 24 hour rainfall totals in inches (most of which fell in two to four hours);

Logan Martin Dam	10.96
Vincent	8.19
Mitchell Dam	7.64
Wilsonville	7.75
Alabaster	5.60
Childersburg	5.05
Palmerdale	5.03
Helena	4.71
Calera	4.67
Pinson	4.50

ALZ001-003-006-009-024 **Lauderdale - Franklin - Madison - Jackson - Jefferson**

26	1500CST	0	0	27K	0	High Wind (G40)
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Tropical Storm Isidore moved inland along the Louisiana Coast during the early morning hours. The large scope of this storm affected areas in north and central Alabama. Total rainfall amounts averaged from 3 to 5 inches. No significant flooding was reported because the rain fell over a long enough period of time. But the ground across the area became saturated. Wind gusts associated with this tropical system ranged from 25 to 50 miles an hour. The higher wind gusts mainly occurred at the higher elevations of north Alabama. The saturated ground conditions, in combination with the wind gusts, knocked several trees down in the mentioned counties. A few power lines also were knocked down leaving many customers temporarily without power.

Some rain totals (in inches) from Isidore;

Wright	5.27
Fayette	4.30
Russellville	4.30
Muscle Shoals	4.18
Falkville	4.01
Oakland	4.00
Alexander City	4.00

Some wind gusts (miles an hour);

Red Mountain	48
Montgomery	38
Huntsville	37
Birmingham	33
Tuscaloosa	31

ALABAMA, Southeast

NOT RECEIVED.

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ALABAMA, Southwest										
NOT RECEIVED.										
ALASKA, Northern										
AKZ223-225>226			Deltana And Tanana - Denali - Ne. Slopes Of The Ern Ak Rng							
	12	0900AST			0	0				High Wind (G48) M
	14	0051AST								
A low pressure center moved from Bristol Bay north over the Kuskokwim Delta and caused strong winds to occur over the Alaska Range and nearby areas, including Delta Junction.										
High Winds reported:										
Zone 223: Delta Junction ASOS reported the highest gust as 55 mph.										
Zone 225: Amateur Radio operator reported 47 Knots (54 mph).										
Zone 226: Pilot Report of 50 knots near Donnelly Dome at 2200 feet above the ground; estimated surface wind was near 50 mph.										
Another Pilot report at 2500 feet above the ground noted wind speed to 55 knots out of the pass. Another pilot reported at 1500 feet above the ground at the northwest corner of zone 226, wind speeds of 50 knots.										
AKZ225>226			Denali - Ne. Slopes Of The Ern Ak Rng							
	26	1000AST			0	0				High Wind (G45)
		1800AST								
The occlusion from a strong low over the Bering Sea moved northeast toward the Alaska Range and brought a period of strong winds to this region. Winds were estimated at 50 to 55 mph due to wind profiler readings from Talkeetna, south of zone 225, and from a pilot report in zone 226 which said winds were 55 knots at 2700 feet above the ground.										
ALASKA, Southeast										
NONE REPORTED.										
ALASKA, Southern										
AKZ191			Western Aleutians							
	11	0000AST			0	0				High Wind (G56)
		2200AST								
A small 986 mb frontal low moved northeast into the Bering Sea Wednesday morning from its position just west southwest of Adak. Winds were estimated at between 55 and 65 mph in the data poor area west of Adak on the 'back side' of the low.										
AKZ101			Anchorage Muni To Bird Creek							
	12	0900AST			0	0	4K			High Wind (G60) M
		2359AST								
Complex lows over western Alaska, combined with a moderate high pressure ridge extending from the Gulf of Alaska into south-central Alaska, produced gusty southeast winds through Turnagain Arm and along much of the upper Anchorage hillside. Gusts reached 69 mph at Glen Alps between 11 am and noon Thursday and again at 2 am Friday. A report from a Forest Service site at the old Nike base above Alpenglow recorded a peak wind of 97 mph between 11 am Thursday and midnight. The accuracy of this report could not be confirmed.										
Anchorage police reported some roof damage to a house in Muldoon. KNIK radio station (the Breeze) was off the air for 3 hours Thursday night...a result of a tree that blew into a power line connected to their tower in Eagle River. Matanuska Electric Association reported 2 other instances of outages from trees being blown into power lines.										
Chugach Electric reported 18 instances of trees downing power lines in the Anchorage bowl. Most problems were in Chester Valley and along the southeast part of Anchorage.										
Bristol Bay										
Countywide	12	1300AST			0	0	2K			Storm Surge
	13	1300AST								
Kuskokwim Delta										
Countywide	12	1300AST			0	0	1K			Storm Surge
	13	1300AST								
A significant Bering Sea storm moved into Norton Sound Thursday night. Strong southerly winds preceded the associated front, while strong westerly winds were observed along the 'back side' of the low.										
Strong onshore winds combined with maximum astronomical tides to produce the potential for coastal flooding as early as Thursday afternoon. The coastal flood threat continued into Friday morning.										
According to a report from Togiak on 9/13, at 4:05 pm ADT, 1 boat washed out to the beach (caused by the wind). The boat's anchor snapped Thursday morning. According to the NWS office in King Salmon, the Village Public Safety Officer (VPSO) in the community estimated "tide...10 ft above normal". It appeared that most significant water encroachment as on the "morning (Friday) tide".										

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ALASKA, Southern

In Dillingham, officials suggested that the coastal flood was a minimal one ("very mild") and that they did not sustain any damage. The high tide and wind during the morning Thursday, and the next late Thursday afternoon, were mentioned as periods of concern.

At Napakiak, one commercial fishing net was lost and the river reportedly overflowed its banks by 2-3 feet.

Southerly winds across the area were gusting from 35 mph to locally near 55 mph Thursday. Strongest winds were reported at Cape Newenham, at the western juncture of the Bristol Bay and Kuskokwim Delta zone.

AKZ185-191-195

Eastern Aleutians - Western Aleutians - Pribilof Islands

24	1258AST	0	0	High Wind (G72)	M
26	1925AST				

An strong low moved through the central Aleutians into the Bering Sea with the cold front elongating east Tuesday into Wednesday. The low intensified to 958 mbs. Wednesday before slowly weakening Wednesday night and Thursday. Strong southeast winds were reported in advance of the front. Intense west winds were observed on the southwest semi-circle of the low.

Zone 185--Dutch Harbor airport reported a gust to 61 mph in advance of the front. The winds decreased after frontal passage, then increased to 81 mph from the southwest on the back side of the low. 60+ mph winds were primarily limited to the Dutch Harbor airport area.

Zone 191--Winds at several reporting stations reached 60+ mph by Tuesday afternoon. Winds decreased briefly, following frontal passage early Wednesday, then increased again late Wednesday into early Thursday.

Zone 195--By adjusting 5-second average ASOS wind gusts, it was determined that winds at St. George did reach at least 60 mph from the southeast Wednesday morning in advance of the storm and from the west on the back side of the low late Wednesday into early Thursday.

AKZ125

Wrn P.W. Snd & Kenai Mtns

24	1408AST	0	0	High Wind (G57)	M
	2053AST				

A strong cold front moved through the area preceded by gusty southeast winds that were channeled by terrain.

AKZ101

Anchorage Muni To Bird Creek

24	1500AST	0	0	High Wind (G54)	M
	1730AST				

A strong front moved east through the area, preceded by locally strong southeast winds.

AKZ101

Anchorage Muni To Bird Creek

25	2300AST	0	0	High Wind (G72)	M
26	1300AST				

A strong front moved east through the area, preceded by strong southeast winds. The event was widespread through western Turnagain Arm and Upper Hillside areas.

AMERICAN SAMOA

NOT RECEIVED.

ARIZONA, Central and Northeast

NOT RECEIVED.

ARIZONA, Northwest

NOT RECEIVED.

ARIZONA, South

Pima County

Tuscon Ryan Fld Arpt	06	1330MST	0	0	0	0	Thunderstorm Wind (G80)	M
		1340MST						

Pima County

Tuscon Ryan Fld Arpt	06	1440MST	0	0	0	0	Flash Flood
		1600MST					

Severe thunderstorms developed early in the afternoon over Ryan Field Airport and produced strong winds and heavy precipitation. A peak wind gust of 80 mph was recorded at Ryan Field Airport. However, there was no damage reported. The storm also produced heavy rain which caused Valencia road to be barricaded due to the road flooding. Officials at Ryan Field Airport reported an inch of precipitation in 30 minutes. Also, a gage located 4 miles southeast of Ryan Air Field recorded 1.26 inches of precipitation for the

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ARIZONA, South

entire event.

AZZ029

Southeast Pinal County

06	1430MST	0	0	0	0	Dust Storm
	1500MST					

Strong winds from a severe thunderstorm over Ryan Air Field and other storms nearby induced a dust storm along Interstate 10 between Tucson and Casa Grande. Police dispatch reported near zero viabilities along Interstate 10 for a brief period.

Pima County

Tucson

06	1640MST	0	0	0	0	Flash Flood
	1800MST					

Pima County

Tucson

06	1645MST	0	0	20K	0	Thunderstorm Wind
	1700MST					

A severe thunderstorm moved over Tucson producing damaging winds and flash flooding. Strong winds knocked down a line of power poles along Kolb Street between 22nd Street and Speedway. Winds also toppled a 100 foot eucalyptus tree onto a house located on East Broadway and Kolb Street. Along with damaging winds, this storm also produced heavy precipitation. Rainfall amounts ranged from near an inch at several gages in central Tucson to .20 inches on the northeast and northwest portions of the city. Most of the precipitation fell within the first 30 minutes of the event. Tucson International Airport also recorded .66 inches of precipitation for the entire event. Tucson dispatch reported several streets flooded.

Pima County

Green Vly

06	1915MST	0	0	0	0	Flash Flood
	2200MST					

Strong thunderstorms developed across southeast Arizona on the afternoon and late evening of the 6th. Several storms continued to develop and move over the town of Green Valley, where law enforcement reported widespread street flooding. A gage at Continental Road in Green Valley recorded 1.85 inches for the entire event. Another gage, located in Madera Canyon, recorded 1.69 inches of precipitation.

Cochise County

Douglas

07	1815MST	0	0	0	0	Hail (1.00)
	1820MST					

Cochise County

Douglas

07	1835MST	0	0	0	0	Flash Flood
	1930MST					

A severe thunderstorm moved northeast over the town of Douglas producing hail and flash flooding. A spotter reported 1 inch diameter hail size and 1.5 inches of rain in 30 minutes. Bisbee dispatch also reported widespread flooding in the town of Douglas.

Pima County

Green Vly

08	1440MST	0	0	0	0	Flash Flood
	1530MST					

Strong thunderstorms developed in the early afternoon and moved east over the town of Green Valley. Although the storm was moving quickly at 15 mph, it had a high rainfall rate. A gage near the area reported .78 inches in 14 minutes, and another reported .64 inches in 11 minutes. Officers in Green Valley reported Sahuarita and Country Club roads were flooded and barricaded.

Pima County

Tucson

10	1430MST	0	0	0	0	Hail (1.50)
	1530MST					

Pima County

Tucson

10	1445MST	0	0	0	0	Flash Flood
	1900MST					

Pima County

Tucson

10	1520MST	0	0	64K	0	Thunderstorm Wind (G60) ^M
	1525MST					

Pima County

Marana

10	1600MST	0	0	0	0	Hail (1.00)
	1630MST					

A severe thunderstorm developed over the greater Tucson area producing damaging winds, hail, and flash flooding. Hail size ranged from 1.5 inches in diameter at the University of Arizona to one inch in diameter across Tucson and Marana. A spotter in central Tucson recorded a peak wind gust of 60 mph and the ASOS at the Tucson International Airport recorded a peak wind gust of 54 mph. The strong winds also knocked down a power pole which left 2300 customers without power. The winds also overturned a mobile home located on Old Vail Road. There was also widespread flash flooding, with rainfall rates of greater than a half of an inch in 30 minutes. Several roads were closed due to flooding which included Sahuarita, Overton and La Cholla roads at Canada del Oro wash, and Davidson.

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ARIZONA, South

Pima County

Sells	10	2012MST 2025MST			0	0	0	0	Hail (1.00)
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Severe thunderstorm continued to develop in central Pima County through the late evening. Tohono Nation dispatch reported one inch in diameter size hail at Sells.

ARIZONA, Southwest

NOT RECEIVED.

ARKANSAS, Central and North Central

NOT RECEIVED.

ARKANSAS, East

NOT RECEIVED.

ARKANSAS, Northwest

NOT RECEIVED.

ARKANSAS, Southeast

NOT RECEIVED.

ARKANSAS, Southwest

NONE REPORTED.

CALIFORNIA, Extreme Southeast

NOT RECEIVED.

CALIFORNIA, North Central

NONE REPORTED.

CALIFORNIA, Northeast

NOT RECEIVED.

CALIFORNIA, Northwest

NOT RECEIVED.

CALIFORNIA, South Central

Mariposa County

9.5 NNW Yosemite Vlg	01 30	0000PST 1800PST			0	0			Wild/Forest Fire
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The Wolf Fire, inside Yosemite National Park, was started on July 11th by lightning and was allowed to burn through the month of August. This resource burn totaled 1454 acres by September 30th (last date of request for spot forecast). No structures or injuries occurred due to this fire.

Fresno County

Countywide	01 30	0000PST 2359PST			0	0			Dry
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Little adverse weather occurred in September 2002 in Interior Central California. Comment: This past water year in the state of California (July 2001-June 2002) was relatively dry with only about 65% of normal rainfall. In combination with less than normal rainfall the previous water year in the Southern Sierra Nevada Mountains (again only about 65% of normal), antecedent conditions are considerably dry entering this cool season of 2002-2003 for the center part of the state.

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CALIFORNIA, Southeast

NOT RECEIVED.

CALIFORNIA, Southwest

CAZ057

Santa Ana Mountains And Foothills

01	1000PST				1	0			Excessive Heat
	1700PST								

A hiker succumbed to heat exhaustion in Modjeska Canyon. Temperatures in the area were 109 degrees Fahrenheit. M38OU

Riverside County

Murrieta

01	1430PST				0	0	30K		Thunderstorm Wind (G60)
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Large tree limbs broken off, fences and 2 large water tanks knocked down. Trained spotter in area estimated wind gusts at 60 kt.

Riverside County

Hemet

01	1715PST				0	0			Thunderstorm Wind (G52)
	1730PST								

Blowing dust, caused by a downdraft brought visibility to near zero, which in turn resulted in several traffic accidents.

San Bernardino County

Hesperia

01	1735PST				0	0	30K		Thunderstorm Wind (G50)
	1736PST								

Power poles blown down near Interstate 15.

Orange County

Newport Beach to Huntington Beach

03	0700PST				0	0			Rip Currents
04	1700PST								

Heavy surf generated by Tropical Cyclone Hernan, caused breakers between 12 and 20 feet and strong rip currents along Orange County beaches.

CAZ043

San Diego County Coasts

04	0415PST				0	0			Fog
	0700PST								

Dense fog developed from Mission Valley to La Jolla.

Riverside County

Norco

04	1300PST				0	0			Wild/Forest Fire
05	1700PST								

A brush fire in the Santa Ana River bed burned 8 acres and closed Interstate 15 for two hours between Eastvale and Norco. Shifting wind, extremely dry vegetation, and the confined area all hampered fire fighting efforts.

San Bernardino County

2.5 N Lytle Creek

05	2220PST				0	0			Wild/Forest Fire
06	0700PST								

A one acre brush fire was caused by a burning vehicle.

San Diego County

2 E Potrero

10	1100PST				0	0			Hail (1.00)
	1115PST								

Near continuous large hail for 15 minutes. Several other occurrences of 0.50 inch diameter hail during the next two hours from additional thunderstorms that formed over the area.

San Diego County

Campo to Potrero

10	1208PST				0	0			Urban/Sml Stream Fld
	1330PST								

Rainfall measurements between 0.75 and 1.15 inches in less than an hour. WSR-88D rainfall estimates in remote area located between observations indicated +3 inches/3 hours. Drainage ditches and creeks overflowed 6 foot high banks. Sheet wash, five inches deep, crossed Highway 94 near Mile Marker 9.

CAZ050

San Diego County Valleys

11	0645PST				0	0			Fog
	0800PST								

Visibility less than 1/4 mile in fog was reported along Mira Mesa Boulevard.

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CALIFORNIA, Southwest

Riverside County

**Beaumont to
Moreno Valley** **11** **1445PST
1915PST** **0** **0** **Wild/Forest Fire**

A brush fire closed Highway 60 between Theodore Street in Moreno Valley and Interstate 10 in Beaumont. In all, 20 acres were burned.

San Diego County

Camp Pendleton **16** **1007PST
1430PST** **0** **0** **Wild/Forest Fire**

A discarded cigarette butt started a brush fire that grew to 247 acres before it was brought under control. Firefighters were able to protect all threatened structures.

CAZ050

San Diego County Valleys
20 **0700PST
0900PST** **0** **0** **Fog**

Visibility less than 1/4 mile was reported between Mission Valley and Mira Mesa.

CAZ043

San Diego County Coasts
23 **0145PST** **0** **0** **250K** **Fog**

A 44 foot boat trying to enter San Diego Bay in dense fog ran onto the rocks on the eastern side of Point Loma and was destroyed by breaking waves. The three occupants were rescued with no injuries.

CALIFORNIA, Upper

NOT RECEIVED.

CALIFORNIA, West South Central

Los Angeles County

30 N Azusa **01** **1235PST
12** **1800PST** **0** **14** **12.7M** **Wild/Forest Fire**

The Curve Fire burned 20,857 acres of land in the Angeles National Forest. The Curve Fire, which was caused by candles from a ritual sacrifice, destroyed 73 structures and injured at least 14 people.

Los Angeles County

4 N Castaic **02** **0800PST
03** **1400PST** **0** **0** **Wild/Forest Fire**

The Freeway Fire burned over 1,100 acres of land in the Angeles National Forest. The Freeway Fire closed down Interstate 5 for several hours, but no injuries or deaths were reported.

Los Angeles County

25 N Azusa **22** **0600PST
30** **1800PST** **0** **14** **15.3M** **Wild/Forest Fire**

The Williams Fire burned 38,094 acres of land in the Angeles National Forest. This fire, which was located about 25 miles north of Azusa, destroyed 77 structures, including 62 cabins. No reports on the number of possible injuries have been received.

CALIFORNIA, Western

NOT RECEIVED.

CARIBBEAN SEA AND TROPICAL ATLANTIC

Deerfield Beach To Ocean Reef Fl 20 To 60Nm

25 E Miami Beach **04** **1132EST** **0** **0** **Waterspout**

A pilot sighted five waterspouts in the Atlantic between Bimini and south Florida.

Deerfield Beach To Ocean Reef Fl

8 E Port Everglades **05** **0711EST** **0** **0** **Waterspout**

A pilot saw a waterspout in the Atlantic.

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CARIBBEAN SEA AND TROPICAL ATLANTIC

Jupiter Inlet To

Deerfield Beach Fl 20

To 60Nm

20 SE Jupiter Inlet	05	1245EST			0	0			Waterspout
A waterspout was seen in the Atlantic offshore Delray Beach.									

Deerfield Beach To Ocean Reef Fl

17 E Port Everglades	09	0850EST			0	0			Waterspout
A pilot sighted a waterspout in the Atlantic.									

Deerfield Beach To Ocean Reef Fl

1 E Miami Beach	16	1145EST			0	0			Waterspout
The Miami Beach Beach Patrol saw a waterspout just offshore.									

Edisto Beach Sc To Savannah Ga Out 20Nm

St. Helena Sound	19	0953EST 1000EST			0	0			Waterspout
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COLORADO, Central and Northeast

NOT RECEIVED.

COLORADO, East Central

Cheyenne County

5 E Wild Horse	12	1830MST			0	0			Hail (0.75)
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Cheyenne County

17 NNE Kit Carson	12	1905MST			0	0			Hail (0.75)
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COLORADO, South Central and Southeast

NOT RECEIVED.

COLORADO, West

NOT RECEIVED.

CONNECTICUT, Northeast

NOT RECEIVED.

CONNECTICUT, Northwest

CTZ001

Litchfield

11	1332EST	0	0	20K	High Wind (G60)	M
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During the afternoon of September 11, a steep gradient developed between a cool Canadian high pressure area over the Great Lakes, and a double barreled low pressure area, including the circulation from Hurricane Gustaf, off the mid Atlantic Coast. This scenario resulted in a high wind event across Litchfield County. Strong northwesterly wind gusts were clocked as high as 60 mph by a weather spotter in the town of Watertown. There were reports of some trees down and spotty power outages throughout the county.

CONNECTICUT, Southern

NOT RECEIVED.

DELAWARE

NOT RECEIVED.

DISTRICT OF COLUMBIA

NOT RECEIVED.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, East Central

NOT RECEIVED.

FLORIDA, Extreme Southern

Monroe County

Key West	11	1745EST 1750EST			0	0	0.50K		Thunderstorm Wind (G50)
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Tree limbs 8 to 10 inches in diameter felled, along with damage to wood commercial signs in western portions of Old Town Key West, and a city lamp post near Whitehead and Front Streets.

FLORIDA, Northeastern

St. Johns County

St Augustine Beach	01	1715EST			1	0			Rip Currents
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Russian foreign exchange student died in rip current.
M?IW

St. Johns County

St Augustine	24	1000EST 1200EST			0	0			Urban/Sml Stream Fld
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Street Flooding.

Flagler County

Flagler Beach	24	1045EST			0	0	10K		Tstm Wind/Hail
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Single large tree fell on house.

Putnam County

5 E Johnson	24	1524EST			0	0			Funnel Cloud
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Public reported a possible touchdown near Hewitt Lake however no damage could be found to confirm event.

Duval County

Countywide	24	1730EST 1930EST			0	0	20K		Flash Flood
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Numerous streets flooded and at least one business in Jacksonville Beach flooded. Stranded elderly motorist had to be rescued after her car was stranded in flood waters and began to float.

FLORIDA, Northwest

NOT RECEIVED.

FLORIDA, Southern

Broward County

Oakland Park	11	1320EST			0	0			Funnel Cloud
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A SKYWARN spotter sighted a funnel cloud.

Palm Beach County

8 W West Palm Beach	12	1205EST			0	0			Funnel Cloud
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Emergency Management Officials reported a funnel cloud.

Glades County

10 W Ortona to 2 S Ortona	13	1815EST			0	0			Thunderstorm Wind (G60)
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Trees and power lines were blown down.

FLORIDA, West Central

Polk County

Lakeland	04	1715EST			0	0			Urban/Sml Stream Fld
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Heavy rains of 3 to 5 inches in 90 minutes combined to flood intersections and low lying areas, some up to waist deep.

Pinellas County

(Pie)St Pete/Clrwate	05	1800EST			0	1			Lightning
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An airline employee working on a plane was injured as lightning struck the plane.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

FLORIDA, West Central

Pinellas County

Seminole Park **06** **1630EST** **0** **0** **50K** **Tstm Wind/Hail**
 Minor widespread roof, carport, and shed damage was reported at a mobile home park. The wind was measured at 42 mph at the intersection of 102nd Avenue and 113 street, about one mile north of the damage.

Pinellas County

Largo **06** **1638EST** **0** **0** **Hail (0.75)**

Pinellas County

4 NW Pinellas Park **06** **1900EST** **0** **0** **Urban/Sml Stream Fld**
 Five inches of rain in three hours caused widespread street flooding near the intersection of U.S. 19 and 38th Street.

Charlotte County

Punta Gorda **09** **1740EST** **0** **0** **Funnel Cloud**
 Several eyewitnesses viewed the funnel cloud to the west

Hillsborough County

3 SW Brandon **19** **1540EST** **0** **0** **Funnel Cloud**
 Trained spotter reported a funnel cloud just east of Interstate 75 about 2 miles south of Highway 60.

Lee County

2 SW Ft Myers **20** **1405EST**
1415EST **0** **0** **Funnel Cloud**
 Trained spotter reported a rope-like funnel extending out of the side of the thunderstorm.

Pinellas County

Clearwater **20** **1628EST** **0** **1** **Lightning**
 A 79 year old female was transported to the hospital after being struck by lightning at her home.

Manatee County

2 SSE Anna Maria **22** **1420EST** **1** **0** **Rip Currents**
 A 60 year old male German tourist lost his life as a result of rip currents while swimming with his wife in the Gulf of Mexico. Relatively large waves of three to five feet were found at the Manatee County Public Beach as a result of Hurricane Isidore spinning over Mexico's Yucatan Peninsula. Tides of one to two feet above astronomical normals combined with the wave action to produce rip currents. Lifeguards were flying caution flags warning of rough surf.
 M60IW

FLORIDA, West Panhandle

NOT RECEIVED.

GEORGIA, East Central

Burke County

8 NNW Waynesboro to **15** **1630EST** **0.1** **20** **0** **0** **4.5K** **0** **Tornado (F0)**
8.1 NNW Waynesboro **1631EST**
 A small F0 briefly touched down at 153 Eagle Pass Court and destroyed 1 metal shed and did minor damage to 2 mobile homes.

Richmond County

Augusta **18** **1300EST** **0** **0** **0** **Thunderstorm Wind (G50)**
 Emergency manager reported many powerlines and large branches down.

GEORGIA, Lower

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Property	Crops	Character of Storm
Killed	Injured									

GEORGIA, North and Central

GAZ001>009-011>016-019>025-027-030>039-041>062-066>076-078>086-089>098-102>113

Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon - Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Polk - Paulding - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Oglethorpe - Wilkes - Haralson - Carroll - Douglas - South Fulton - De Kalb - Rockdale - Walton - Newton - Morgan - Greene - Taliaferro - Heard - Coweta - Fayette - Clayton - Spalding - Henry - Butts - Jasper - Putnam - Hancock - Warren - Troup - Meriwether - Pike - Upson - Lamar - Monroe - Jones - Baldwin - Washington - Glascock - Jefferson - Harris - Talbot - Taylor - Crawford - Bibb - Twiggs - Wilkinson - Johnson - Emanuel - Muscogee - Chattahoochee - Marion - Schley - Macon - Peach - Houston - Bleckley - Laurens - Treutlen - Stewart - Webster - Sumter - Dooly - Crisp - Pulaski - Wilcox - Dodge - Telfair - Wheeler - Montgomery - Toombs

03 1200EST 0 0 Very Warm
12 2359EST

A strong ridge of high pressure aloft stagnated over the southeastern U.S. for several days during the first 11 days of September. Consequently, temperatures were unseasonably warm during the first part of September. Temperatures soared into the 90s across nearly all of north and central Georgia during this period. The hottest weather was broken into two periods, one from September 3rd to September 6th, and the second from September 9th through September 12th. Atlanta recorded a maximum of 95-degrees on the 4th, 10th, and 11th. Athens had 96 degrees on the 4th, 98 degrees on the 10th and 97 degrees on the 11th. Macon reported 96 degrees on the 10th and 97 degrees on the 11th. Columbus had 96 degrees on the 4th and 5th, 98 degrees on the 10th, and a sweltering 99 degrees on the 11th. The 95-degree reading in Atlanta on the 11th tied their record for this date and the 99-degree reading in Columbus on the 11th set a new record for the date, breaking their previous record of 97 degrees set in 1962.

Polk County Cedartown

05 1644EST 0 0 Hail (0.75)
The Polk county 911 center reported dime size hail.

Polk County Cedartown

05 1644EST 0 0 0.50K Thunderstorm Wind
The Polk county 911 center reported that a few trees were blown down.

Walton County Walnut Grove

13 1858EST 0 0 Urban/Sml Stream Fld
The Walton county 911 center reported that there was some minor street flooding.

Carroll County Carrollton

13 2105EST 0 0 Urban/Sml Stream Fld
The Carroll county 911 center reported that there was minor road flooding on U.S. Highway 27 at the WalMart.com facility.

GAZ001>009-011>016-019>025-027-030>039-041>062-066>076-078>086-089>098-102>113

Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon - Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Hall - Banks - Jackson - Madison - Polk - Paulding - Cobb - North Fulton - Gwinnett - Barrow - Clarke - Oconee - Oglethorpe - Wilkes - Haralson - Carroll - Douglas - South Fulton - De Kalb - Rockdale - Walton - Newton - Morgan - Greene - Taliaferro - Heard - Coweta - Fayette - Clayton - Spalding - Henry - Butts - Jasper - Putnam - Hancock - Warren - Troup - Meriwether - Pike - Upson - Lamar - Monroe - Jones - Baldwin - Washington - Glascock - Jefferson - Harris - Talbot - Taylor - Crawford - Bibb - Twiggs - Wilkinson - Johnson - Emanuel - Muscogee - Chattahoochee - Marion - Schley - Macon - Peach - Houston - Bleckley - Laurens - Treutlen - Stewart - Webster - Sumter - Dooly - Crisp - Pulaski - Wilcox - Dodge - Telfair - Wheeler - Montgomery - Toombs

14 1100EST 0 0 Tropical Storm
15 0900EST

Tropical Storm Hanna moved inland near Mobile, Alabama around 5 pm EDT Saturday, September 14, 2002. The remnants of Hanna then moved northeast across central Alabama during the day Saturday and then across north Georgia Saturday evening into Sunday morning. The center of the remnants of Hanna passed near Carrollton, Georgia around 2 AM EDT Sunday morning, then exited the state near Clayton, Georgia Sunday morning, September 15th, around 10 am EDT. While the heaviest rain and wind associated with Hanna did not affect north and central Georgia area, a significant northwest-southeast oriented feeder band associated with Hanna moved across north and central Georgia during the mid and late afternoon Saturday. Wind gusts of 45 to 50 mph and very heavy tropical thunderstorms accompanied the feeder band. Numerous trees and power lines were blown down as the feeder band moved rapidly northeast through the afternoon. Many residents of north Georgia were left without power for at least a few hours. In the Atlanta metropolitan area alone, 48,000 residents were left without power. There were also scattered areas of urban and street flooding as up to 2 inches or more of rain fell in association with the feeder band in a one to two hour period. The heaviest rain fell across the counties north of a line from Atlanta to Athens. Additional rain fell across the region Saturday night and Sunday morning, but was considerably less intense, confined mainly to central Georgia, and was not accompanied with damaging winds. Three day rainfall totals in association with Hanna were in excess of 3 inches across much of northeast, east central, and the southern portions of middle Georgia. Athens reported 3.54 inches on September 14th alone, with a 3-day total of 5.03 inches. The average rainfall amount for north Georgia stations for the month was in excess of 7 inches, and was nearly 5 inches for middle Georgia. These rainfall amounts are approximately 3.5 and 1.5 inches above normal, respectively. Several stations, particularly in north Georgia had in excess of 10 inches of rain during the month, with 12.47 inches at Carrollton, 11.23 inches at Embury, 11.02 inches at Alto, 10.10 inches at Hiawasse, and 10.06 inches at Taylorsville. Despite the heavy rainfall, flooding problems were minimal, since north and central Georgia had been in a 4-year drought.

Storm Data and Unusual Weather Phenomena

		Time	Path	Path	Number of		Estimated		September 2002
		Local/	Length	Width	Persons		Damage		
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	

GEORGIA, North and Central

Gilmer County

**11 N Ellijay to
8 SSW Ellijay**

14	1605EST	0	0	2K	Thunderstorm Wind
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The Amicalola Electric Membership Cooperative reported that at least nine trees were down in scattered areas around the northern and western part of the county.

Whitfield County

2 W Cohutta to
6 E Cohutta

14	1615EST	0	0	1K	Thunderstorm Wind
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The Whitfield county 911 center reported that some trees were down across the northern part of the county.

Crisp County

Cordele

14	1630EST	0	0	1K	Tstm Wind/Hail
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The Cordele Dispatch reported that wind blew a tree down on a power line, causing one portion of a neighborhood to be without power for an hour.

Telfair County

4 E Jacksonville

14	1640EST	0	0	0.50K	Thunderstorm Wind
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The Telfair county 911 center reported that two trees were blown down.

Laurens County

Countywide

14	1700EST	0	0	2K	Thunderstorm Wind
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The Courier Herald of Dublin reported that a few limbs, trees, and power lines were down in scattered areas around the county.

Morgan County

Madison

18	1600EST	0	0	5K	Urban/Sml Stream Fld
----	---------	---	---	----	----------------------

The Madisonian Newspaper of Madison reported that over three inches of rain fell in approximately 30 minutes resulting in the flooding of downtown streets. A motorist was stranded in his vehicle near the intersection of Main and Park Street as water rose up to the level of the windows. The motorist was safely removed from the flood waters, however the vehicle suffered extensive water damage.

Wilcox County

5 N Abbeville

18	1708EST	0	0	Hail (0.88)
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WMAZ radio of Macon relayed a report of nickel size hail from the public.

Peach County

Ft Vly

18	1830EST	0	0	Urban/Sml Stream Fld
----	---------	---	---	----------------------

The Peach county Emergency Management Director reported that street flooding was occurring. Several vehicles were stalled in high water.

Dawson County

7 SE Dawsonville

21	1530EST 1600EST	0	0	50K	Flash Flood
----	--------------------	---	---	-----	-------------

The Dawson county Emergency Management Director reported that very heavy rain, upwards of 2 inches in a 30 minute to one hour period washed out a road and six foot culvert to a subdivision in the southeastern portion of the county. This was the only road in/out of the subdivision. Hence, several families were stranded as a result. This water was part of the runoff into Toto Creek which eventually flows into Lake Sidney Lanier.

Gwinnett County

Dacula

21	1715EST	0	0	Urban/Sml Stream Fld
----	---------	---	---	----------------------

The Gwinnett county Amateur Radio Emergency Services reported that Old Peachtree Road and Old Fountain Road were flooded. Several cars were stranded in the area because of the high water. In addition, water was up to the foundation of one home in the area.

Fulton County

6 NE Atlanta to
2 SW Atlanta

21	1930EST	0	0	Urban/Sml Stream Fld
----	---------	---	---	----------------------

An amateur radio operator and Fox 5 News of Atlanta reported that there was street flooding and ponding of water in low-lying areas from downtown Atlanta to areas just southwest of downtown Atlanta.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Injured	Estimated Damage Property	Crops	Character of Storm
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GEORGIA, North and Central

Fulton County

2 SW Atlanta to
College Park

21

2030EST
2100EST

0

0

1.5M

Flash Flood

The Fulton County Emergency Management Director reported that very heavy rain from a thunderstorm, moving southwest through the Atlanta metropolitan area, resulted in extensive flooding of homes and related property in the southwest Atlanta, East Point, and College Park areas. Rainfall in excess of 3 inches occurred in one hour or less throughout this area. The flooding was largely caused by clogged up drainage systems, trash, and other debris which collected along a fence which fell down as water pooled against it. Several homes were flooded as the result of this collapsed fence which acted much like a collapsed dam and a wall-of-water rushing downstream. Approximately 500 homes were flooded and damaged, with home damage apportioned as \$956,000 in Atlanta, \$134,435 in College Park, and \$130,000 in East Point. Thirty-seven of these homes were declared uninhabitable by the county inspector as water rose to more than 18 inches deep in the homes and above electrical outlets, rendering them unsafe to inhabit. Water rose up to eight feet deep in one home and 4-foot deep water was common. Up to 20 residents had to be rescued by boat. More than 75% of these homes sustained major damage, deemed as in excess of \$3500 damage, with the remaining 25% sustaining minor damage, deemed as in excess of \$2300 but less than \$3500 in damage. In addition to the damaged homes, at least a dozen cars were inundated and ruined in the flash flood and in excess of \$90,000 of city and county overtime fees were required for clean up and repair. The flash flooding also resulted in numerous stranded vehicles on Interstate-75 and Interstate-20 near downtown as well as other roads in the immediate areas surrounding downtown Atlanta. Illustrating the extent of the very heavy rainfall was a rise on Peachtree Creek on the north side of Atlanta from 3 feet to in excess of 17 feet in just a couple of hours. The Governor of Georgia declared the area as a disaster area and was able to provide \$1.2 million dollars of assistance to the residents affected.

Baldwin County

Milledgeville

26

1600EST

0

0

2K

Strong Wind

The Union Recorder of Milledgeville reported that strong winds, essentially associated with the remnants of Tropical Storm Isidore, blew an electrical pipe from the side of a home. The resultant sparking of the wires and the pipe against the wood siding of the house started a fire. The fire was put out in short order before much damage was done to the house.

GAZ001>009-011>016-
019>022-024-030>034-
041>045-052>053-
066>067-078

Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon -
Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Banks - Polk - Paulding - Cobb -
North Fulton - Gwinnett - Haralson - Carroll - Douglas - South Fulton - De Kalb - Heard - Coweta - Troup -
Meriwether - Harris

26

1800EST

0

0

21.5K

Strong Wind

27 0030EST

The remnants of Tropical Storm Isidore moved through Mississippi, western, and middle Tennessee from the evening of the 26th through the afternoon of the 27th. The storm had a large circulation. Thus, winds across northwest Georgia gusted into the 30 to 35 mph range as it passed by to the northwest of the state. With saturated soils across the region from recent heavy rainfall, several weak and small trees were blown down. Some of the trees fell down on power lines, and in some cases knocked the power lines down. The hardest hit areas were in far northwest Georgia, northwest of a line from Cedartown to Blue Ridge. Catoosa, Murray, Floyd, Gordon, and Whitfield counties all reported that a number of trees and/or power lines were down.

Barrow County

Winder

27

0030EST

0

0

Urban/Sml Stream Fld

The Gwinnett Daily Post newspaper of Lawrenceville reported that significant flooding occurred to two offices, one housing the Gwinnett Daily Post Winder bureau and the other an Automation Packaging plant. The Gwinnett Daily Post suffered the most damage with standing water up to one foot deep in part of the building. A concrete slab, five inches thick, was floating in the water and 2,300 sections of paper and advertisements were soaked. Mud and other debris was also reported in the two buildings. The water was the result of runoff from a neighboring construction site and overnight heavy rain, associated with the remnants of Tropical Storm Isidore.

GAZ001>009-011>016-
019>024-030>034-
041>045-052>053-
066>067-078

Dade - Walker - Catoosa - Whitfield - Murray - Fannin - Gilmer - Union - Towns - Chattooga - Gordon -
Pickens - Dawson - Lumpkin - White - Floyd - Bartow - Cherokee - Forsyth - Hall - Banks - Polk - Paulding -
Cobb - North Fulton - Gwinnett - Haralson - Carroll - Douglas - South Fulton - De Kalb - Heard - Coweta -
Troup - Meriwether - Harris

27

0300EST
0700EST

0

0

31.5K

Strong Wind

As the remnants of Tropical Storm Isidore moved through middle Tennessee and the circulation center passed closest to northwest and north Georgia, a three to four hour period of gusty winds developed. Winds, gusting from 30 to 35 mph continued to blow down some trees, some of which fell on power lines. This was essentially the second surge of wind with Isidore, the first coming during the evening of the 26th was apparently associated with a feeder band. This time, however, the brunt of the wind damage occurred in northeast Georgia, particularly in the higher elevations. The areas from Ellijay in Gilmer county to Blairsville in Union county were among the hardest hit. Numerous trees and power lines were blown down in Gilmer county. Georgia Highway 5 was blocked north of Ellijay. In Union county, nearly two dozen trees were blown down, one of which caused damage to a house.

GEORGIA, Northeast

NOT RECEIVED.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

GEORGIA, Southeast

GAZ087>088-099>101-114>119-137>141 **Jenkins - Screven - Candler - Bulloch - Effingham - Tattnall - Evans - Inland Bryan - Coastal Bryan - Inland Chatham - Coastal Chatham - Long - Inland Liberty - Coastal Liberty - Inland McIntosh - Coastal McIntosh**

01 0000EST 0 0 Drought
30 2359EST

Mild to moderate drought conditions were over southeast Georgia for most of the month. Several rain producing systems along with nearby tropical storms produced enough rainfall to improve the long term drought conditions that have scorched the region for the past couple of years.

Jenkins County

Millen 18 1545EST 0 0 Thunderstorm Wind (G50)
 Several farm buildings were destroyed. Also, several large limbs and power lines were down.

Bulloch County

Statesboro 18 1749EST 0 0 Flood
1830EST

Bulloch County

Brooklet 18 1810EST 0 0 Flood
1830EST

Evans County

Claxton to Hagan 18 1900EST 0 0 Flood
1930EST

Three to five inches of rain fell across Evans and Bulloch Counties during the late afternoon early evening time frame. As a result, flooding occurred in several areas where roads were covered with a couple feet of water which caused cars to stall.

GEORGIA, Southwest

NOT RECEIVED.

GULF OF MEXICO

**W End Of The 7 Mile
 Bridge To Key W Out
 20Nm**

3 SE Key West 01 0751EST 0 0 Waterspout
0756EST

Waterspout observed 3 miles southeast of Key West International Airport.

**Gulf Side Of The
 Lower Keys Out 20Nm**

5 NE Key West 02 1115EST 0 0 Waterspout
 Waterspout observed by Key West Naval Air Station weather observer 2 miles north of Boca Chica Key.

**Gulf Side Of The
 Lower Keys Out 20Nm**

4 N Key West 02 1115EST 0 0 Waterspout
 Waterspout observed by US Navy personnel 3 miles north of Sigsbee Key.

**Key W To Dry
 Tortugas Waters**

Dry Tortugas 06 1457EST 0 0 Marine Tstm Wind
 Wind gust 41 knots (47 mph) recorded at Dry Tortugas CMAN.

**Key W To Dry
 Tortugas Waters**

15 N Boca Grande 06 1636EST 0 0 Waterspout
 Two waterspouts observed 18 miles north-northwest of Key West.

Tampa Bay

Middle Tampa Bay 06 1706EST 0 0 Marine Tstm Wind
1715EST
 Wind measured by the ASOS at the Albert Whitted Airport in St. Petersburg.

**Englewood To Tarpon
 Springs Fl Out 20Nm**

7 S Clearwater Beach 06 1732EST 0 0 Marine Tstm Wind
 Wind measured by a TV weather spotter between Seminole and Indian Rocks.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

GULF OF MEXICO

Gulf Side Of The Lower Keys Out 20Nm

6 N Key West	08	1704EST 1712EST			0	0			Waterspout
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Waterspout observed 6 miles north of Key West International Airport.

Craig Key To The W End Of The 7 Mile Bridge Out 20Nm

5 S Marathon	09	2146EST			0	0			Marine Tstm Wind
--------------	----	---------	--	--	---	---	--	--	------------------

Wind gust 39 knots (45 mph) recorded at Sombrero Key CMAN (anemometer height 158 feet AMSL).

Craig Key To The W End Of The 7 Mile Bridge Out 20Nm

5 S Marathon	10	1400EST			0	0			Marine Tstm Wind
--------------	----	---------	--	--	---	---	--	--	------------------

Wind gust 34 knots (39 mph) recorded at Sombrero Key CMAN (anemometer height 158 feet AMSL).

Ocean Reef To Craig Key Fl Out 20Nm

7 S Key Largo	10	1757EST			0	0			Marine Tstm Wind
---------------	----	---------	--	--	---	---	--	--	------------------

Wind gust 35 knots (40 mph) recorded at Molasses Reef CMAN.

Ocean Reef To Craig Key Fl Out 20Nm

7 S Key Largo	10	1809EST			0	0			Marine Tstm Wind
---------------	----	---------	--	--	---	---	--	--	------------------

Wind gust 35 knots (40 mph) recorded at Molasses Reef CMAN.

Key W To Dry Tortugas Waters

Dry Tortugas	11	0837EST			0	0			Marine Tstm Wind
--------------	----	---------	--	--	---	---	--	--	------------------

Wind gust 38 knots (44 mph) recorded at Dry Tortugas CMAN.

Key W To Dry Tortugas Waters

Dry Tortugas	11	1546EST			0	0			Marine Tstm Wind
--------------	----	---------	--	--	---	---	--	--	------------------

Wind gust 36 knots (41 mph) recorded at Dry Tortugas CMAN.

Gulf Side Of The Lower Keys Out 20Nm

Key West	11	1914EST			0	0			Marine Tstm Wind
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Wind gust 38 knots (44 mph) recorded at Key West International Airport.

W End Of The 7 Mile Bridge To Key W Out 20Nm

Key West	11	1914EST			0	0			Marine Tstm Wind
----------	----	---------	--	--	---	---	--	--	------------------

Wind gust 38 knots (44 mph) recorded at Key West International Airport.

Ocean Reef To Craig Key Fl Out 20Nm

7 S Key Largo	11	2124EST			0	0			Marine Tstm Wind
---------------	----	---------	--	--	---	---	--	--	------------------

Wind gust 42 knots (48 mph) recorded at Molasses Reef CMAN.

Craig Key To The W End Of The 7 Mile Bridge Out 20Nm

1 SW Duck Key	15	0830EST			0	0			Waterspout
---------------	----	---------	--	--	---	---	--	--	------------

Waterspout observed 1 mile southeast of Grassy Key.

Key W To Dry Tortugas Waters

4 SSE Boca Grande	17	1714EST 1720EST			0	0			Waterspout
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Large waterspout observed 8 miles west southwest of Key West.

Storm Data and Unusual Weather Phenomena

Time Length	Path Length	Path Width	Number of Persons	Estimated Damage
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September 2002									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured		Estimated Damage Property Crops	Character of Storm	
GULF OF MEXICO									
Key W To Dry Tortugas Waters									
6 ENE Boca Grande	17	1720EST 1728EST			0	0		Waterspout	
Large waterspout observed 3 miles west northwest of Key West.									
Key W To Dry Tortugas Waters									
7 NE Boca Grande	17	1738EST 1742EST			0	0		Waterspout	
Large waterspout observed 3 miles northwest of Key West.									
Chokoloskee To Bonita Beach Fl 20 To 60Nm									
2 S Marco Island	18	1640EST			0	0		Waterspout	
The public reported a waterspout in the Gulf of Mexico just offshore Marco Island.									
Craig Key To The W End Of The 7 Mile Bridge 20 To 60Nm									
5 S Marathon	19	1907EST			0	0		Marine Tstm Wind	
Wind gust 40 knots (46 mph) recorded at Sombrero Key CMAN (anemometer height 158 feet AMSL).									
Ocean Reef To Craig Key Fl 20 To 60Nm									
18 SE Key Largo	19	2000EST			0	0		Marine Tstm Wind	
Wind gust 42 knots (48 mph) recorded on cruise ship Explorer of the Seas.									
Craig Key To The W End Of The 7 Mile Bridge Out 20Nm									
5 S Marathon	20	0317EST			0	0		Marine Tstm Wind	
Wind gust 37 knots (43 mph) recorded at Sombrero Key CMAN (anemometer height 158 feet AMSL).									
Key W To Dry Tortugas Waters									
8 SE Boca Grande	20	1406EST			0	0		Marine Tstm Wind	
Wind gust 35 knots (40 mph) recorded at Sand Key CMAN.									
Gulf Side Of The Lower Keys Out 20Nm									
Key West	20	1410EST			0	0		Marine Tstm Wind	
Wind gust 34 knots (39 mph) recorded at Key West International Airport.									
W End Of The 7 Mile Bridge To Key W Out 20Nm									
Key West	20	1410EST			0	0		Marine Tstm Wind	
Wind gust 34 knots (39 mph) recorded at Key West International Airport.									
Englewood To Tarpon Springs Fl Out 20Nm									
5 NW Longboat Key	20	1555EST 1605EST			0	0		Marine Tstm Wind	
Wind measured by a trained storm spotter on Bradenton Beach.									
Tampa Bay									
Middle Tampa Bay	20	1622EST			0	0		Marine Tstm Wind	
Measure by the ASOS at the Albert Whitted Airport in St. Petersburg.									
Key W To Dry Tortugas Waters									
8 SE Boca Grande	20	1645EST			0	0		Marine Tstm Wind	
Wind gust 38 knots (44 mph) recorded at Sand Key CMAN.									
Gulf Side Of The Lower Keys Out 20Nm									
Key West	20	1648EST			0	0		Marine Tstm Wind	
Wind gust 35 knots (40 mph) measured at Key West International Airport.									

Storm Data and Unusual Weather Phenomena

Time From 0000	Path From 0000	Path To 0000	Number of Flares	Estimated Flare Rate
0000-0005	0000-0005	0000-0005	1	0.20
0005-0010	0000-0005	0000-0005	1	0.20
0010-0015	0000-0005	0000-0005	1	0.20
0015-0020	0000-0005	0000-0005	1	0.20
0020-0025	0000-0005	0000-0005	1	0.20
0025-0030	0000-0005	0000-0005	1	0.20
0030-0035	0000-0005	0000-0005	1	0.20
0035-0040	0000-0005	0000-0005	1	0.20
0040-0045	0000-0005	0000-0005	1	0.20
0045-0050	0000-0005	0000-0005	1	0.20
0050-0055	0000-0005	0000-0005	1	0.20
0055-0100	0000-0005	0000-0005	1	0.20
0100-0105	0000-0005	0000-0005	1	0.20
0105-0110	0000-0005	0000-0005	1	0.20
0110-0115	0000-0005	0000-0005	1	0.20
0115-0120	0000-0005	0000-0005	1	0.20
0120-0125	0000-0005	0000-0005	1	0.20
0125-0130	0000-0005	0000-0005	1	0.20
0130-0135	0000-0005	0000-0005	1	0.20
0135-0140	0000-0005	0000-0005	1	0.20
0140-0145	0000-0005	0000-0005	1	0.20
0145-0150	0000-0005	0000-0005	1	0.20
0150-0155	0000-0005	0000-0005	1	0.20
0155-0200	0000-0005	0000-0005	1	0.20
0200-0205	0000-0005	0000-0005	1	0.20
0205-0210	0000-0005	0000-0005	1	0.20
0210-0215	0000-0005	0000-0005	1	0.20
0215-0220	0000-0005	0000-0005	1	0.20
0220-0225	0000-0005	0000-0005	1	0.20
0225-0230	0000-0005	0000-0005	1	0.20
0230-0235	0000-0005	0000-0005	1	0.20
0235-0240	0000-0005	0000-0005	1	0.20
0240-0245	0000-0005	0000-0005	1	0.20
0245-0250	0000-0005	0000-0005	1	0.20
0250-0255	0000-0005	0000-0005	1	0.20
0255-0300	0000-0005	0000-0005	1	0.20
0300-0305	0000-0005	0000-0005	1	0.20
0305-0310	0000-0005	0000-0005	1	0.20
0310-0315	0000-0005	0000-0005	1	0.20
0315-0320	0000-0005	0000-0005	1	0.20
0320-0325	0000-0005	0000-0005	1	0.20
0325-0330	0000-0005	0000-0005	1	0.20
0330-0335	0000-0005	0000-0005	1	0.20
0335-0340	0000-0005	0000-0005	1	0.20
0340-0345	0000-0005	0000-0005	1	0.20
0345-0350	0000-0005	0000-0005	1	0.20
0350-0355	0000-0005	0000-0005	1	0.20
0355-0400	0000-0005	0000-0005	1	0.20
0400-0405	0000-0005	0000-0005	1	0.20
0405-0410	0000-0005	0000-0005	1	0.20
0410-0415	0000-0005	0000-0005	1	0.20
0415-0420	0000-0005	0000-0005	1	0.20
0420-0425	0000-0005	0000-0005	1	0.20
0425-0430	0000-0005	0000-0005	1	0.20
0430-0435	0000-0005	0000-0005	1	0.20
0435-0440	0000-0005	0000-0005	1	0.20
0440-0445	0000-0005	0000-0005	1	0.20
0445-0450	0000-0005	0000-0005	1	0.20

Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
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GULF OF MEXICO

**W End Of The 7 Mile
Bridge To Key W Out
20Nm**

Key West	20	1648EST	0	0	Marine Tstm Wind
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Wind gust 35 knots (40 mph) recorded at Key West International Airport.

Craig Key To The W End Of The 7 Mile Bridge Out 20Nm

5 S Marathon	20	1649EST	0	0	Marine Tstm Wind
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Wind gust 35 knots (40 mph) recorded at Sombrero Key CMAN (anemometer height 158 feet AMSL).

Tampa Bay
Old Tampa Bay

Old Tampa Bay	20	1649EST	0	0	Marine Tstm Wind
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Wind measured by the ASOS at the St. Petersburg/Clearwater airport.

Craig Key To The W End Of The 7 Mile Bridge 20 To 60Nm

5 S Marathon	20	2201EST	0	0	Marine Tstm Wind
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Wind gust 34 knots (39 mph) recorded at Sombrero Key CMAN (anemometer height 158 feet AMSL).

Ocean Reef To Craig Key Fl Out 20Nm

7 S Key Largo	20	2226EST	0	0	Marine Tstm Wind
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Wind gust 35 knots (40 mph) recorded at Molasses Reef CMAN.

Key W To Dry Tortugas Waters

Dry Tortugas	20	2246EST	0	0	Marine Tstm Wind
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Wind gust 34 knots (39 mph) recorded at Dry Tortugas CMAN.

Florida Bay

Flamingo	21	0006EST	0	0	Marine Tstm Wind
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Wind gust 37 knots (43 mph) recorded at Flamingo HANDAR station.

Key W To Dry Tortugas Waters

Dry Tortugas	21	1232EST	0	0	Marine Tstm Wind
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Wind gust 34 knots (39 mph) recorded at Dry Tortugas CMAN.

Key W To Dry Tortugas Waters

Dry Tortugas	22	0256EST	0	0	Marine Tstm Wind
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Wind gust 36 knots (41 mph) recorded at Dry Tortugas CMAN.

**W End Of The 7 Mile
Bridge To Key W Out
20Nm**

7 SW Key West	24	2135EST	0	0	Marine Tstm Wind
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Wind gust 38 knots (44 mph) recorded at Sand Key CMAN.

Tarpon Springs To Suwannee River Fl 20 To 60Nm

40 W Bayport	26	1200EST	0	0	Marine Tstm Wind
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A line of thunderstorms associated with a feeder band well east of tropical storm Lili produced wind gusts to 36 knots at a COMPS buoy.

**Key W To Dry
Tortugas Waters
8 NE Boca Grande**

8 NE Boca Grande	28	1757EST 1804EST	0	0	Waterspout
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Waterspout observed 5 miles northwest of Key West.

Storm Data and Unusual Weather Phenomena

Time Interval	Path Number	Path Name	Number of Trips	Estimated Cost
08:00-09:00	1	Path 1	10	\$100
09:00-10:00	2	Path 2	15	\$150
10:00-11:00	3	Path 3	20	\$200
11:00-12:00	4	Path 4	25	\$250
12:00-13:00	5	Path 5	30	\$300
13:00-14:00	6	Path 6	35	\$350
14:00-15:00	7	Path 7	40	\$400
15:00-16:00	8	Path 8	45	\$450
16:00-17:00	9	Path 9	50	\$500
17:00-18:00	10	Path 10	55	\$550
18:00-19:00	11	Path 11	60	\$600
19:00-20:00	12	Path 12	65	\$650
20:00-21:00	13	Path 13	70	\$700
21:00-22:00	14	Path 14	75	\$750
22:00-23:00	15	Path 15	80	\$800
23:00-00:00	16	Path 16	85	\$850
00:00-01:00	17	Path 17	90	\$900
01:00-02:00	18	Path 18	95	\$950
02:00-03:00	19	Path 19	100	\$1000
03:00-04:00	20	Path 20	105	\$1050
04:00-05:00	21	Path 21	110	\$1100
05:00-06:00	22	Path 22	115	\$1150
06:00-07:00	23	Path 23	120	\$1200
07:00-08:00	24	Path 24	125	\$1250
08:00-09:00	25	Path 25	130	\$1300
09:00-10:00	26	Path 26	135	\$1350
10:00-11:00	27	Path 27	140	\$1400
11:00-12:00	28	Path 28	145	\$1450
12:00-13:00	29	Path 29	150	\$1500
13:00-14:00	30	Path 30	155	\$1550
14:00-15:00	31	Path 31	160	\$1600
15:00-16:00	32	Path 32	165	\$1650
16:00-17:00	33	Path 33	170	\$1700
17:00-18:00	34	Path 34	175	\$1750
18:00-19:00	35	Path 35	180	\$1800
19:00-20:00	36	Path 36	185	\$1850
20:00-21:00	37	Path 37	190	\$1900
21:00-22:00	38	Path 38	195	\$1950
22:00-23:00	39	Path 39	200	\$2000
23:00-00:00	40	Path 40	205	\$2050
00:00-01:00	41	Path 41	210	\$2100
01:00-02:00	42	Path 42	215	\$2150
02:00-03:00	43	Path 43	220	\$2200
03:00-04:00	44	Path 44	225	\$2250
04:00-05:00	45	Path 45	230	\$2300
05:00-06:00	46	Path 46	235	\$2350
06:00-07:00	47	Path 47	240	\$2400
07:00-08:00	48	Path 48	245	\$2450
08:00-09:00	49	Path 49	250	\$2500
09:00-10:00	50	Path 50	255	\$2550
10:00-11:00	51	Path 51	260	\$2600
11:00-12:00	52	Path 52	265	\$2650
12:00-13:00	53	Path 53	270	\$2700
13:00-14:00	54	Path 54	275	\$2750
14:00-15:00	55	Path 55	280	\$2800
15:00-16:00	56	Path 56	285	\$2850
16:00-17:00	57	Path 57	290	\$2900
17:00-18:00	58	Path 58	295	\$2950
18:00-19:00	59	Path 59	300	\$3000
19:00-20:00	60	Path 60	305	\$3050
20:00-21:00	61	Path 61	310	\$3100
21:00-22:00	62	Path 62	315	\$3150
22:00-23:00	63	Path 63	320	\$3200
23:00-00:00	64	Path 64	325	\$3250
00:00-01:00	65	Path 65	330	\$3300
01:00-02:00	66	Path 66	335	\$3350
02:00-03:00	67	Path 67	340	\$

Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
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GULF OF MEXICO

Chokoloskee To Bonita Beach Fl 20 To 60Nm

10 SW Wiggins Pass to 10 SE Wiggins Pass	29	1755EST	0	0	Waterspout
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A SKYWARN spotter sighted a waterspout in the Gulf of Mexico just offshore Clam Pass.

Florida Bay

7 NE Duck Key	30	1326EST	0	0	Marine Tstm Wind
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Wind gust 34 knots (39 mph) recorded at Long Key CMAN.

HAWAII

Maui County

5 W Wailuku	03	1415HST 1700HST	0	0	Heavy Rain
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Heavy showers produced ponding of roadways, and minor stream and drainage ditch flooding in West Maui. The areas most affected were the Waihee, Waiehu, and Iao valleys. No serious injuries or property damage were reported.

Honolulu County

5 NNW Makaha to Nanakuli	03	1700HST 1930HST	0	0	Heavy Rain
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Heavy showers and isolated thunderstorms caused minor stream and drainage ditch flooding and ponding of roadways in the western parts of Oahu, including the Waianae Range and the Waianae coastline from Makua to Nanakuli. No serious property damage or injuries were reported, however.

Honolulu County

09	1415HST 1610HST	0	0	Wild/Forest Fire
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A brush fire burned nearly 50 acres near the intersection of Kaukonahua Road and Farrington Highway, near Thomson Corner. No homes or other structures were threatened by the blaze, and there were no injuries. The cause of the fire was not known.

Honolulu County

2 SE Ewa	13	1015HST 1315HST	0	0	Wild/Forest Fire
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A brush fire scorched more than 50 acres near Iroquois Point Road, with the flames moving quickly toward new homes in the Ewa-by-Gentry subdivision. However, the fire did not cause any major property damage or injuries. Fire investigators believed that the blaze was intentionally set.

Maui County

1.5 ESE Kahului	17	1330HST 2200HST	0	0	6.6K	Wild/Forest Fire
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A fire burned almost 70 acres of sugar cane, kiawe, and brush along Hansen Road, not far from the Hansen Road-Hana Highway intersection. Smoke from the fire shut down Hansen Road for about four hours in the afternoon hours of the 17th. Hawaiian Commercial & Sugar Company estimated losses at more than \$6500. There were no serious injuries reported, however.

HIZ001>006-008

HIZ001>006-008 Kauai - Oahu - Maui - North And East Hawaii Including Windward Kohala / Hamakua / Hilo / Puna - Molokai - Lanai - South Hawaii Including Kau

22	0500HST	0	0	High Surf
23	1600HST			

A storm low far south of the equator generated surf of 6 to 8 feet along the south shores of all the Hawaiian Islands. There were no reports of serious injuries or property damage.

Honolulu County

Honolulu	28	1430HST	0	0	Wild/Forest Fire
	30	2100HST			

A brush fire burned almost 60 acres over several days in Kalihi Valley, above Kalihi Elementary School. At times, the fire threatened several homes and the school. The Honolulu Fire Department used its Air One helicopter in helping to battle the fire because parts of the blaze were inaccessible by land. In the end, no serious property damage or injuries were reported. Fire officials were suspicious that the fire was deliberately set.

HAWAII WATERS

Channels Between The Islands

2.5 SSW Kapaa	17	0710HST 0730HST	0	0	Waterspout
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Police officers spotted a large waterspout offshore from Lydgate Beach Park. However, the waterspout apparently did not make landfall. There were no reports of injuries or property damage.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IDAHO, Extreme Southeast

NOT RECEIVED.

IDAHO, North

NONE REPORTED.

IDAHO, Northwest

NOT RECEIVED.

IDAHO, Southeast

NONE REPORTED.

IDAHO, Southwest

NOT RECEIVED.

ILLINOIS, Central

NOT RECEIVED.

ILLINOIS, Northeast

Winnebago County

Rockford

19 1140CST

0 0

Thunderstorm Wind (G50)

Power lines blown down.

Mchenry County

Harvard

19 1200CST
1300CST

0 0

Urban/Sml Stream Fld

In 35 minutes, 2.4 inches of rain fell in Harvard producing some street flooding.

ILLINOIS, Northwest

NOT RECEIVED.

ILLINOIS, South

ILZ075>078-080>094

Jefferson - Wayne - Edwards - Wabash - Perry - Franklin - Hamilton - White - Jackson - Williamson - Saline - Gallatin - Union - Johnson - Pope - Hardin - Alexander - Pulaski - Massac

01 0001CST
30 1800CST

0 0

53M Drought

A prolonged summer drought gradually worsened, becoming severe by early September. Many parts of southern Illinois received little or no measurable rainfall in July. At Paducah, Kentucky, the three-month period from June through August of 2002 was the second driest such period on record. The main effect of the drought was on agriculture. Crop loss estimates totalled around 53 million dollars in southern Illinois. The corn crop, which was especially susceptible to the combined effects of heat and drought, took the biggest hit. About 33 million dollars in corn was lost in southern Illinois. Another 20 million dollars was lost in soybean production. Some trees and shrubs died in the drought, especially newly planted ones with shallow root systems. A few outdoor fires broke out, including a 20-acre blaze in Saline County, several miles west of Eldorado. The remnants of Tropical Storm Isidore provided much-needed heavy rainfall late in September. One to three inches of rain fell over most of southern Illinois, which greatly eased the drought.

ILLINOIS, Southwest

NONE REPORTED.

INDIANA, Central

NOT RECEIVED.

INDIANA, Northeast

Adams County

5 E Decatur

18 1800EST

0 0 0

Thunderstorm Wind

Emergency management reported a shed was blown over.

Storm Data and Unusual Weather Phenomena

September 2002

September 2002									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
INDIANA, Southeast									
Wayne County									
Cambridge City	20	1518EST 1519EST			0	0	8K		Thunderstorm Wind (G50)
A roof was blown off a building in town. Several trees were knocked down as well.									
Fayette County									
Connersville	20	1525EST 1528EST			0	0	3K		Thunderstorm Wind (G50)
A few trees were blown down.									
Wayne County									
Richmond	20	1545EST 1549EST			0	0	3K		Thunderstorm Wind (G50)
Trees were downed on the north side of town.									
INZ073>075-080									
Ripley - Dearborn - Ohio - Switzerland									
	27	0519EST 0900EST			0	0			Flood
The remnants of Tropical Storm Isidore tracked into the Ohio Valley during the early morning hours, spreading a large area of heavy tropical rains into southeast Indiana. Rainfall amounts between two and four inches were common over a four to five hour period, causing high water to close several roadways and basement flooding of numerous homes.									
INDIANA, Southwest									
INZ081>082-085>088									
Gibson - Pike - Posey - Vanderburgh - Warrick - Spencer									
	01	0000CST			0	0	70M		Drought
	30	1800CST							
A prolonged summer drought gradually worsened, becoming severe by early September. Many parts of southwest Indiana received little or no measurable rainfall during August. At Boonville, only 0.08 inch was measured in August. Evansville reported an August total of 0.63 inch. Rainfall was highly variable during the summer, and Evansville reported more rain than many other sites. The main effect of the drought was on agriculture. Crop loss estimates totalled around 70 million dollars. The corn crop, which was especially susceptible to the combined effects of heat and drought, took the biggest hit. About 50 million dollars in corn was lost in southwest Indiana. Another 20 million dollars was lost in soybean production. Some trees and shrubs died in the drought, especially newly planted ones with shallow root systems. However, the effects of this drought on trees, shrubs, and wildfire danger was considerably less than the drought of 1999. The remnants of Tropical Storm Isidore provided very heavy rainfall late in September. One to three inches of rain fell over most of southwest Indiana, which greatly eased the drought.									
Posey County									
8 SW Mt Vernon to 7.8 SW Mt Vernon	20	0940CST 0941CST	0.2	40	0	0			Tornado (F0)
A brief touchdown was reported in rural farm country southwest of Mount Vernon. No damage was found. The parent thunderstorm later produced a stronger tornado near Poseyville in northern Posey County.									
Posey County									
2.4 W Wadesville to 1.5 S Poseyville	20	0950CST 0956CST	4.7	150	0	1	500K		Tornado (F2)
The tornado destroyed 10 mobile homes and four buildings. The greatest concentration of damage was on Highway 165 about 2 miles south of Poseyville. Peak winds were estimated around 130 MPH. Among the destroyed structures was a county highway garage. Eight vehicles were tossed, including a small van that was thrown onto a debris pile. One person was treated for a cut.									
Pike County									
7 W Petersburg to 7 NW Petersburg	20	1035CST 1037CST	0.9	75	0	0	2K		Tornado (F0)
The tornado path began in a remote area just south of the White River near County Road 775 in far northwestern Pike County. The tornado was only on the ground for a mile before crossing the White River into Knox County. No known structural damage occurred in Pike County. Aerial surveys from a plane were used to determine the path of the tornado, which reached F-2 intensity after it crossed into Knox County.									
Warrick County									
Boonville	27	0030CST 0400CST			0	0			Urban/Sml Stream Fld
The remnants of Tropical Storm Isidore moved slowly north from the Louisiana coast, passing through central Kentucky around daybreak on the 27th. Rainfall amounts were in the 2 to 4 inch range across Warrick County. A spotter reported 3.8 inches of rain at Boonville, causing minor flooding of streets, yards, and flood-prone areas. The region was in the midst of a drought, which allowed the ground to soak up the rainfall efficiently.									
IOWA, Central									
Taylor County									
2 SW Lenox	18	1800CST			0	0	5K	5K	Hail (1.00)

Storm Data and Unusual Weather Phenomena

September 2002

		Time	Path	Path	Number of		Estimated	September 2002	
Location	Date	Local/ Standard	Length (Miles)	Width (Yards)	Killed	Injured	Property	Crops	Character of Storm
<u>IOWA, Central</u>									
Adair County									
Adair	18	1805CST			0	0	25K	10K	Hail (1.75)
Adair County									
10 SW Greenfield	18	1815CST			0	0			Hail (0.75)
Adair County									
6 W Orient	18	1815CST			0	0			Hail (0.75)
Adair County									
Greenfield	18	1820CST			0	0	40K	10K	Hail (1.75)
Union County									
Kent	18	1825CST			0	0	2K		Hail (0.88)
Guthrie County									
Guthrie Center	18	1830CST			0	0	5K	3K	Hail (1.00)
Guthrie County									
3 N Guthrie Center	18	1830CST			0	0	20K	10K	Hail (1.75)
Union County									
Afton	18	1850CST			0	0	5K	2K	Hail (1.00)
Guthrie County									
2 N Adair	18	1858CST			0	0	20K	10K	Hail (1.75)
Clarke County									
Murray	18	1902CST			0	0	3K		Hail (0.88)
Dallas County									
Linden	18	1902CST			0	0			Hail (0.75)
Adair County									
3 E Orient	18	1910CST			0	0			Hail (0.75)
Clarke County									
1 W Murray	18	1927CST			0	0			Hail (0.75)
Warren County									
3 S New Virginia	18	1934CST			0	0	20K	10K	Hail (1.75)
Clarke County									
Liberty	18	1936CST 1938CST			0	0	5K	2K	Thunderstorm Wind (G52)
Warren County									
3 E Liberty Center	18	1936CST			0	0			Hail (0.75)
Monroe County									
6 W Albia	18	1941CST			0	0	3K		Hail (0.88)
Boone County									
6 N Ogden	18	1945CST			0	0			Hail (0.75)
Lucas County									
2 N Oakley	18	2005CST			0	0	5K	2K	Thunderstorm Wind (G52)
Marion County									
Dallas	18	2005CST			0	0	3K		Hail (0.88)
Marion County									
Melcher	18	2007CST			0	0	5K	2K	Thunderstorm Wind (G52)
Marion County									
1 W Melcher	18	2009CST			0	0	3K	1K	Hail (0.88)
Marion County									
5 S Knoxville	18	2047CST			0	0	3K	1K	Hail (0.88)
Marion County									
2 W Attica	18	2100CST			0	0	5K	2K	Thunderstorm Wind (G52)
Polk County									
Alleman	18	2140CST			0	0	5K	2K	Thunderstorm Wind (G52)
Polk County									
Elkhart	18	2148CST			0	0	3K		Hail (0.88)

A very unstable air mass was located over Iowa during the afternoon of the 18th. Low pressure moved across the northern U.S. with a trailing cold front extending south from the low. A warm front had lifted north into Iowa during the afternoon. Temperatures warmed well into the 80s over the south half of Iowa, with surface dew point temperatures in the upper 60s to low 70s. This produced lifted indices of -5 C. and below. During the late afternoon thunderstorms erupted east of the approaching cold front. A line of thunderstorms developed rapidly and produced numerous reports of hail ranging from three-quarters of an inch up to golf ball in size. The line progressed east into central and eventually eastern Iowa before it weakened. The system began to become more of a wind system after sunset. Wind gusts of 60 MPH were reported in south central into parts of central Iowa. The most significant damage occurred in Marion County where high winds downed power poles west of Attica.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

IOWA, East Central and Southeast

NOT RECEIVED.

IOWA, Northeast

NONE REPORTED.

IOWA, Northwest

NOT RECEIVED.

IOWA, Southwest

NOT RECEIVED.

KANSAS, East

KSZ008>012-020>024-026-034>040-054>056-058>059 Republic - Washington - Marshall - Nemaha - Brown - Cloud - Clay - Riley - Pottawatomie - Jackson - Jefferson - Ottawa - Dickinson - Geary - Morris - Wabaunsee - Shawnee - Douglas - Lyon - Osage - Franklin - Coffey - Anderson

01	0001CST	0	0	Drought
30	2359CST			

The drought conditions that started in July continued through September. Many crops and pasturelands over the area were greatly affected. Farm ponds were void of ample water for cattle and crops were either plowed up or made into fodder for farm animals. No actual crop damage figures were available but estimates for all of northeast Kansas were likely to exceed 25 million dollars.

Shawnee County

Topeka	04	1933CST	0	0	Funnel Cloud
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A law enforcement official sighted a funnel cloud over western Topeka.

Morris County

1 W Council Grove	18	1600CST	0	0	Hail (1.00)
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Wabaunsee County

7 N Paxico	18	1718CST	0	0	Hail (0.75)
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Wabaunsee County

7 N Paxico	18	1718CST	0	0	Thunderstorm Wind (G52)
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Pottawatomie County

3 N Emmett	18	1726CST	0	0	Hail (1.00)
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Jackson County

12 SSW Soldier	18	1733CST	0	0	Hail (0.75)
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Jackson County

5 SSW Soldier	18	1742CST	0	0	Hail (1.00)
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Nemaha County

Corning	18	1758CST	0	0	Thunderstorm Wind (G52)
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Jackson County

2 WNW Holton	18	1800CST	0	0	Hail (1.00)
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Jackson County

Holton	18	1806CST	0	0	Hail (0.75)
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Jackson County

Holton	18	1806CST	0	0	1K Thunderstorm Wind (G52)
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Strong winds blew over a construction trailer.

Jackson County

Holton	18	1807CST	0	0	Hail (1.00)
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Nemaha County

7 N Goff	18	1813CST	0	0	Thunderstorm Wind (G52)
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Nemaha County

Sabetha	18	1827CST	0	0	Hail (1.00)
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Brown County

Morrill	18	1833CST	0	0	Hail (0.75)
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Dickinson County

Herington	18	1835CST	0	0	Hail (0.75)
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Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

KANSAS, East

Dickinson County

1 S Herington	18	1835CST			0	0			Hail (0.88)
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Brown County

Everest	18	1839CST			0	0			Hail (0.75)
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Riley County

2 S Manhattan	18	1840CST			0	0			Hail (1.00)
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Morris County

3 S Latimer	18	1843CST			0	0			Hail (0.75)
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Jackson County

2 SE Hoyt	18	1950CST			0	0			Hail (0.75)
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Jefferson County

6 W Valley Falls	18	1956CST			0	0			Hail (0.75)
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Jefferson County

6 W Valley Falls	18	1956CST			0	0			Thunderstorm Wind (G52)
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Jefferson County

Boyle	18	2005CST			0	0			Hail (0.75)
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Jefferson County

2 E Winchester	18	2014CST			0	0			Thunderstorm Wind (G52)
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Thunderstorms developed late in the afternoon of the 18th over northeast and east central Kansas and continued well into the evening hours. Many of the storms became severe and produced numerous reports of large hail and strong winds.

KANSAS, Extreme Southeast

NOT RECEIVED.

KANSAS, North Central

NONE REPORTED.

KANSAS, Northeast

Leavenworth County

Easton	18	2033CST			0	0			Hail (0.75)
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Leavenworth County

Lowemont	18	2035CST			0	0			Hail (0.75)
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KANSAS, Northwest

NONE REPORTED.

KANSAS, Southeast

Harper County

6 W Attica	18	1505CST			0	0			Hail (1.00)
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Harper County

Attica	18	1505CST			0	0			Hail (1.75)
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Harper County

1 N Attica	18	1506CST			0	0			Hail (1.75)
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Harper County

4 N Attica	18	1511CST			0	0			Hail (1.75)
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Harper County

Harper	18	1530CST			0	0			Hail (1.75)
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Harper County

Harper	18	1542CST			0	0			Hail (2.50)
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Sedgwick County

2 N Cheney	18	1555CST			0	0			Hail (0.75)
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Sedgwick County

5 SW Goddard	18	1559CST			0	0			Thunderstorm Wind (G61)
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Harper County

2 NE Runnymede	18	1605CST			0	0			Hail (1.75)
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Harvey County

6 E Newton	18	1611CST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

September 2002

September 18, 1900									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
KANSAS, Southeast									
Harper County									
5 N Anthony	18	1612CST			0	0			Hail (0.88)
Sumner County									
3 W Conway Spgs	18	1615CST			0	0			Hail (1.75)
Sedgwick County									
Wichita	18	1623CST			0	0			Thunderstorm Wind (G61)
Occurred on west side of town.									
Marion County									
7 E Peabody	18	1640CST			0	0			Hail (1.00)
Sedgwick County									
5 S Derby	18	1700CST			0	0			Hail (0.88)
Sumner County									
1 W Wellington	18	1702CST			0	0			Thunderstorm Wind (G61)
Sumner County									
Belle Plaine	18	1704CST			0	0			Thunderstorm Wind (G56)
Sumner County									
Belle Plaine	18	1711CST			0	0			Hail (0.88)
Cowley County									
Udall	18	1750CST			0	0			Thunderstorm Wind (G56)
Cowley County									
5 W Atlanta	18	1753CST			0	0			Hail (1.00)
Cowley County									
2 N Atlanta	18	1754CST			0	0			Hail (1.00)
Cowley County									
1 W Atlanta	18	1756CST			0	0			Thunderstorm Wind (G61)
Butler County									
4 W Latham	18	1801CST			0	0			Thunderstorm Wind (G52)
Butler County									
5 E Smileyburg	18	1802CST			0	0			Hail (1.00)
Butler County									
5 SE Smileyburg	18	1802CST			0	0			Thunderstorm Wind (G61)
Butler County									
Latham	18	1812CST			0	0			Hail (1.00)
Elk County									
10 NE Howard	18	1900CST			0	0			Thunderstorm Wind (G65)
Unspecified farm equipment moved slightly. Velocities estimated between 61 and 70 kts. Time of occurrence estimated.									
Cowley County									
Arkansas City	18	1917CST			0	0			Hail (0.75)
Cowley County									
2 S Burden	18	1918CST			0	0			Hail (1.00)
Wilson County									
5 NW Fredonia	18	1941CST			0	0			Hail (0.75)
Wilson County									
Fredonia	18	1945CST			0	0			Hail (1.00)
Wilson County									
Fredonia	18	1946CST			0	0			Thunderstorm Wind (G52)
Cowley County									
15 E Arkansas City	18	1952CST			0	0			Hail (1.00)
Cowley County									
2 SE Hooser	18	1955CST			0	0			Hail (1.00)
Cowley County									
9 NE Dexter	18	2015CST			0	0			Hail (0.75)
Chautauqua County									
Cedar Vale	18	2020CST			0	0			Hail (1.00)
Neosho County									
1 W Chanute	18	2021CST			0	0			Thunderstorm Wind (G61)
Sedgwick County									
Cheney	18	2055CST			0	0			Hail (1.00)

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

KANSAS, Southwest

NOT RECEIVED.

KENTUCKY, Central

NOT RECEIVED.

KENTUCKY, Eastern

NOT RECEIVED.

KENTUCKY, Northeast

KYZ101>103-105 Greenup - Carter - Boyd - Lawrence

01	0000EST	0	0	Drought
25	2300EST			

The hot and dry pattern of August spilled over into the 1st half of September. Readings in the 90s were common for the first 10 days of the month. Drought conditions developed. Conditions improved during the fourth week, as rains and cooler temperatures arrived.

KENTUCKY, Northern

KYZ089 Carroll

27	0725EST	0	0	Flood
	0900EST			

The remnants of Tropical Storm Isidore tracked into the Ohio Valley during the early morning hours, spreading a large area of heavy tropical rains into northern Kentucky. Rainfall amounts between two and four inches were common over a four to five hour period, with flooding on several county roadways and in Carrollton.

KENTUCKY, Southwest

KYZ001>022 Fulton - Hickman - Carlisle - Ballard - Mcracken - Graves - Livingston - Marshall - Calloway - Crittenden - Lyon - Trigg - Caldwell - Union - Webster - Hopkins - Christian - Henderson - Daviess - Mclean - Muhlenberg - Todd

01	0000CST	0	0	70M	Drought
30	1800CST				

A prolonged summer drought gradually worsened, becoming severe in early September. Many parts of western Kentucky received no measurable rainfall through the first two weeks of September. At Paducah, the three-month period from June through August of 2002 was the second driest such period on record. Total rainfall during the period from June 1 to September 15 was only 5 inches, well below the normal of about 13 inches. The main effect of the drought was on agriculture. Crop loss estimates totalled around 70 million dollars. The corn crop, which was especially susceptible to the combined effects of heat and drought, took the biggest hit. About 35 million dollars in corn was lost in western Kentucky. About 20 million dollars in tobacco was lost, and another 15 million dollars was lost in soybean production. Some trees and shrubs died in the drought, especially newly planted ones with shallow root systems. A few counties declared bans on outdoor burning due to the high fire danger. A fire burned 50 acres of pasture along Interstate 24 near the Grand Rivers exit. However, the effects of this drought on trees, shrubs, and the soybean crop were considerably less than the drought of 1999. The remnants of Tropical Storm Isidore provided very heavy rainfall late in September. Four to eight inches of rain fell over most of western Kentucky, which greatly eased the drought.

Daviess County

Owensboro	15	1300CST	0	0	Urban/Sml Stream Fld
		1500CST			

A slow-moving thunderstorm produced very heavy rain over the City of Owensboro. Several places in the city reported street flooding. There were no reports of impassable or closed roads.

Trigg County

Cadiz	20	1205CST	0	0	4K	Thunderstorm Wind (G50)
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Several trees were blown down in the Cadiz area, including one that fell across power lines.

Christian County

6 W Crofton to Mannington	20	1212CST	0	0	12K	Thunderstorm Wind (G70)
		1222CST				

Spotty wind damage occurred over northern Christian County. The first wind event occurred on State Route 109, about 6 miles west of Crofton. Winds near 65 MPH uprooted or snapped numerous trees. About two miles northeast of the first event, more significant damage occurred. Winds near 80 MPH destroyed an unanchored trailer home on Highway 1348, and nearby trees were damaged. The final event occurred near Mannington, where some trees were blown down in the area of U.S. Highway 41 and Kentucky 407.

Storm Data and Unusual Weather Phenomena

September 2002

September 2002									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Crops	Character of Storm
<u>KENTUCKY, Southwest</u>									
Hopkins County									
4.5 S Nortonville to Mortons Gap	20	1220CST 1230CST			0	0			Thunderstorm Wind (G52)
Several large trees were blown down along U.S. Highway 41 from Mortons Gap to the Christian County line.									
Todd County									
Countywide	26 27	1755CST 0400CST			0	0			Flash Flood
Christian County									
Countywide	26 27	1955CST 0400CST			0	0			Flash Flood
Trigg County									
Cadiz	26 27	2145CST 0400CST			0	0	5K		Flash Flood
Calloway County									
2 S New Concord	26 27	2150CST 0300CST			0	0			Flash Flood
Graves County									
Tri City	26 27	2200CST 0300CST			0	0			Flash Flood
The remnants of Tropical Storm Isidore moved north from the Louisiana coast, passing over central Kentucky. The large size of the storm, combined with its relatively slow movement, contributed to excessive rainfall in excess of 4 inches. The heaviest rainfall was southeast of a line from Mayfield to Owensboro, where 4 to 8 inches fell. The heaviest total was 8.17 inches at the Paradise Steam Plant on the Green River in Muhlenberg County. A co-operative observer measured 8.04 inches at Herndon in Christian County. The next five heaviest totals were 6.26 inches at Hopkinsville (Christian County), 6.50 inches at the Green River Power Plant (Muhlenberg County), 5.88 inches at Canton (Trigg County), 5.73 inches at Cadiz (Trigg County), and 5.34 inches at New Concord (Calloway County). The flooding was mitigated by the ability of the drought-stricken soil to absorb rainfall. Street flooding was the main problem. Portions of several state highways were flooded in Todd County, including Highways 181, 79, 41, 346, and 848. In Calloway County, seven inches of water covered Highway 121 south of New Concord. Several secondary roads were closed in Christian County. Water entered the Trigg County courthouse.									
KYZ021									
		Muhlenberg							
	27 30	0300CST 1800CST			0	0			Flood
The Green River rose above flood stage at the Paradise Steam Plant in response to very heavy rains from the remnants of Tropical Storm Isidore. About 8 inches of rain was measured by co-operative observers in parts of the Green River basin, including 8.17 inches at the Paradise Steam Plant. The river flooding was minor, cresting at 383.9 feet on September 29. Flood stage is 380 feet. The remnants of Isidore moved north from the Louisiana coast and across central Kentucky.									
<u>LAKE ERIE</u>									
Mi Waters Of Lake Erie									
6 W Luna Pier	19	1830EST			0	0			Marine Tstm Wind
<u>LAKE HURON</u>									
Lh Pt Austin To Hbr Beach Mi 5Nm Offshore To Intl Border									
Port Austin	10	1530EST			0	0			Marine Tstm Wind
Pt Austin To Hbr Beach Mi									
Port Austin	10	1530EST			0	0			Marine Tstm Wind
Inner Saginaw Bay & Sw Of Pt Au Gres To Bay Port Mi									
10 SW Saginaw River M 10 SE Saginaw River Mouth	19	1600EST			0	0			Marine Tstm Wind
Outer Saginaw Bay & Sw Of Alabaster To Pt Austin Mi									
30 SW Alabaster	19	1600EST			0	0			Marine Tstm Wind

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

LAKE MICHIGAN

**Lm New Buffalo To
Holland Mi 5Nm
Offshore To Mid Line
Of Lake**

Saugatuck Harbor	19	1245EST 1312EST			0	0	10K		Marine Tstm Wind
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A 40 knot wind gust was recorded at the Benton Harbor/St. Joseph airport near the Lake Michigan coastline. Radar estimates that wind gusts to around 40 knots must also have occurred out to mid lake.

**New Buffalo To St
Joseph Mi**

St. Joseph Harbor	19	1312EST 1325EST			0	0	25K		Marine Tstm Wind
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A 40 knot wind gust was recorded near the St. Joseph harbor at the airport in Benton Harbor (near the Lake Michigan coastline).

**St Joseph To South
Haven Mi**

South Haven Harbor	19	1312EST			0	0	25K		Marine Tstm Wind
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A 40 knot wind gust was recorded at the Benton Harbor/St. Joseph airport, near the Lake Michigan coastline.

LAKE ST CLAIR

**Lake St Clair (U.S.
Portion)**

20 SW Grosse Pointe	10	1801EST			0	0			Marine Tstm Wind
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**Lake St Clair (U.S.
Portion)**

6 W St. Clair Shores	19	1930EST			0	0			Marine Tstm Wind
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LOUISIANA, Northeast

NOT RECEIVED.

LOUISIANA, Northwest

Caddo Parish

5 N Hosston	19	1518CST			0	0			Thunderstorm Wind (G52)
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Several large trees down along Hwy 71.

LOUISIANA, Southeast

NOT RECEIVED.

LOUISIANA, Southwest

NOT RECEIVED.

MAINE, North

NOT RECEIVED.

MAINE, South

NOT RECEIVED.

MARYLAND, Central

NOT RECEIVED.

MARYLAND, Northeast

NOT RECEIVED.

MARYLAND, South

NOT RECEIVED.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MARYLAND, West

Garrett County

Mc Henry 27 1455EST 0 0 Thunderstorm Wind (G50)

MASSACHUSETTS, Central and East

NOT RECEIVED.

MASSACHUSETTS, West

NONE REPORTED.

MICHIGAN, East

MIZ047>049-053>055-060>063-068>070-075>076-082>083 Midland - Bay - Huron - Saginaw - Tuscola - Sanilac - Shiawassee - Genesee - Lapeer - St. Clair - Livingston - Oakland - Macomb - Washtenaw - Wayne - Lenawee - Monroe

01 0000EST 0 0 Drought
30 0000EST

The month of September turned out to be like much of the summer of 2002 was, hot and dry. The dry weather was especially severe from the northern suburbs of Detroit to the Tri Cities and thumb. The monthly rainfall total of 0.29 inches recorded at Flint Bishop airport was the lowest ever recorded for September, making the month the driest September on record for the city of Flint. The 0.39 inches recorded in Saginaw made it the second driest September on record. Flint, Saginaw and Detroit metro airport received less than .05 inches of precipitation during the first half of the month. The dryness was only worsened by the heat. Several record highs were set throughout eastern Michigan during the month of September. After an extremely hot and dry July and August, the weather of September 2002 only exasperated drought conditions. During the first half of the month, hundreds of communities across the area were under water restrictions. Hardest hit from the drought was the agricultural industry. September yields across most of the area were estimated at under 50 percent and many counties across eastern Michigan were declared agricultural disaster areas. At the time of this publication, an estimate of monetary damages due to crop loss was not available.

Huron County

Port Austin 10 1530EST 0 0 50K Thunderstorm Wind (G52)

Storm spotters reported that a large tree was uprooted and blown onto a house in thunderstorms winds. The house sustained extensive damage.

Huron County

Bay Port 10 1535EST 0 0 20K Thunderstorm Wind (G55)

A grain silo sustained some minor damage from thunderstorm winds. Some windows were also reported to have been blown out of a barn.

Huron County

1 NW Owendale 10 1555EST 0 0 30K Thunderstorm Wind (G50)

Emergency management reported several trees and power lines blown onto the road in thunderstorm winds. The roof and west wall of a barn was also reportedly blown off in thunderstorm winds.

Shiawassee County

3 S Laingsburg 10 1557EST 0 0 15K Thunderstorm Wind (G52)

Trained spotters and broadcast media reported several large trees blown down, some of which blocked roadways. One tree limb landed on a house, while another house lost its chimney.

Livingston County

5 S Fowlerville 10 1600EST 0 0 Thunderstorm Wind (G50)

Spotters reported that several large trees were blown down in thunderstorm winds.

Lapeer County

5 N Lapeer 10 1615EST 0 0 Thunderstorm Wind (G50)

An off duty NWS employee reported several large trees and tree branches blown down in thunderstorm winds.

Livingston County

3 S Howell 10 1615EST 0 0 Thunderstorm Wind (G50)

Livingston County Central Dispatch reported that several large trees were blown down in thunderstorm winds.

Shiawassee County

1 N Morrice 10 1615EST 0 0 75K Lightning

Lightning struck a barn and set it on fire. The barn was heavily damaged.

Shiawassee County

Morrice 10 1615EST 0 0 50K Thunderstorm Wind (G52)

A newspaper reported that several large trees and tree limbs were blown down in thunderstorm winds, some of which fell onto homes.

Shiawassee County

3 W Perry 10 1615EST 0 0 Thunderstorm Wind (G55)

Spotters reported that three large trees were blown down.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property Damage	Crops	Character of Storm
<u>MICHIGAN, East</u>									
Livingston County									
5 SE Brighton	10	1630EST			0	0			Thunderstorm Wind (G50)
									Law enforcement reported that numerous one foot diameter trees were blown down in Green Oak Township due to thunderstorm winds.
St. Clair County									
Capac	10	1700EST			0	0			Thunderstorm Wind (G52)
									A trained spotter estimated 60 MPH thunderstorm winds.
Washtenaw County									
Chelsea	10	1720EST			0	0			Thunderstorm Wind (G50)
									Spotters reported that three large trees were blown down onto power lines.
St. Clair County									
Yale	10	1900EST			0	0			Thunderstorm Wind (G50)
									St Clair County Central Dispatch reported that power lines were blown down in thunderstorm winds.
St. Clair County									
Jeddo	10	1910EST			0	0			Thunderstorm Wind (G50)
									Trained spotters reported a large tree blown down in thunderstorm winds.
									After several days of record warmth, a strong cold front moved through eastern Michigan during the afternoon of the 10th. Due to some dry air situated below the bases of the storm clouds, evaporational cooling increased the downdraft strength of many of the thunderstorms. This caused some of the storms to produce very strong wind gusts, some of which caused damage. Hundreds of power outages were blamed on these thunderstorms. The more widespread outages in eastern Michigan occurred across portions of Shiawassee, Huron and Livingston counties.
Shiawassee County									
Perry	19	1538EST			0	0			Hail (0.88)
Midland County									
7 SW Midland	19	1550EST			0	0			Thunderstorm Wind (G52)
									Trained spotters reported that thunderstorm winds uprooted and blown onto Brooks Road near Meridian Road in Mount Haley Township.
Bay County									
5 SW Bay City	19	1600EST			0	0	25K		Thunderstorm Wind (G52)
									Law enforcement reported that several large trees were blown down and that several garage doors were blown in due to thunderstorm winds.
Midland County									
Midland	19	1600EST			0	0			Thunderstorm Wind (G50)
									Law enforcement reported numerous trees blown down in thunderstorm winds.
Saginaw County									
Saginaw	19	1600EST			0	0			Thunderstorm Wind (G50)
									The newspaper reported that thunderstorm winds blew down a large tree and several large branches in residential areas near the downtown.
Bay County									
1 N Essexville	19	1605EST			0	0			Thunderstorm Wind (G54) ^M
Bay County									
1 NE Willard	19	1605EST			0	0			Thunderstorm Wind (G50)
									Spotters reported that thunderstorms blew several large tree limbs onto the road.
Lenawee County									
3 S Adrian	19	1715EST			0	0			Thunderstorm Wind (G50)
									Spotters reported several large tree limbs blown down in thunderstorm winds.
Washtenaw County									
Ann Arbor	19	1755EST			1	2			Lightning
									Three men were installing a roof at an apartment complex under construction when they were struck by lightning. Two of the men were injured, while the third was later pronounced dead. M34LS
Livingston County									
4 NE Brighton	19	1757EST			0	0			Thunderstorm Wind (G52)
									A spotter reported that a large tree was blown over in thunderstorm winds.
Oakland County									
2 W Milford	19	1802EST			0	0			Thunderstorm Wind (G50)
									Spotters reported several six inch diameter tree limbs blown down in thunderstorm winds.
Washtenaw County									
1 SW Whittaker	19	1806EST			0	0			Thunderstorm Wind (G50)
									Spotters reported that thunderstorm winds blew several eight inch diameter tree limbs down.
Monroe County									
Lambertville	19	1830EST			0	0	2K		Thunderstorm Wind (G50)
									Spotters reported that thunderstorm winds blew over a half a dozen telephone poles.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MICHIGAN, East

Monroe County

Temperance **19** **1830EST** **0** **0** **Thunderstorm Wind (G50)**

Spotters reported several large trees blown down in thunderstorm winds.

St. Clair County

Algonac to **19** **1945EST** **0** **0** **100K** **Thunderstorm Wind (G55)**
2 SW Algonac

The media and trained spotters reported numerous large trees blown down in Algonac and on Harsens Island. One tree fell onto the roof of a home. A pickup truck was destroyed by a fallen tree. Two tool sheds were also destroyed by fallen trees.

An upper air disturbance move across Lower Michigan during the late afternoon and evening hours on the 19th. This disturbance combined with unseasonably warm and humid air across Lower Michigan to trigger widespread thunderstorms. These thunderstorms initially moved into the Saginaw Valley during the late afternoon hours. During the evening, another round of thunderstorms moved from south to north across the region. Some of these thunderstorms were severe with damaging wind gusts.

MICHIGAN, Extreme Southwest

St. Joseph County

Sturgis to **19** **1635EST** **0** **0** **0** **Thunderstorm Wind**
Colon **1645EST**

Law enforcement reported trees were reported down on the road in Sturgis, Nottam and Colon.

Branch County

Bronson to **19** **1650EST** **0** **0** **0** **Thunderstorm Wind**
Sherwood **1657EST**

Law enforcement reported trees down.

MICHIGAN, North

NOT RECEIVED.

MICHIGAN, Upper

NOT RECEIVED.

MICHIGAN, West

Kent County

Byron Center to **03** **0140EST** **0** **0** **10K** **Thunderstorm Wind (G53)**
Caledonia **0145EST**

Several trees and large limbs were blown down by thunderstorm wind gusts in Byron Center, as reported by area law enforcement. A large tree was also blown down in Caledonia.

Ingham County

Lansing **10** **1530EST** **0** **0** **10K** **Thunderstorm Wind (G53)**

Thunderstorm wind gusts blew down several trees in the south side of Lansing.

Clinton County

Bath **10** **1610EST** **0** **0** **40K** **0** **Thunderstorm Wind (G60)**

Three barns were blown down by thunderstorm wind gusts near the intersection of Cutler and Hollister roads. Several large trees were also blown down three miles northeast of Bath along Cutler road between Upton and Hollister roads.

Jackson County

Parma to **10** **1616EST** **0** **0** **20K** **Thunderstorm Wind (G53)**
Jackson **1633EST**

Several trees were blown down in Parma and also in Jackson by thunderstorm wind gusts, as reported by local law enforcement.

Allegan County

Saugatuck to **19** **1410EST** **0** **0** **20K** **Thunderstorm Wind (G53)**
Allegan **1415EST**

Several trees were blown down in Saugatuck and Allegan by thunderstorm wind gusts, as reported by area law enforcement.

Eaton County

Grand Ledge to **19** **1430EST** **0** **0** **10K** **Thunderstorm Wind (G53)**
Potterville

Law enforcement reported that several trees were blown down by thunderstorm wind gusts in Grand Ledge. One inch hail was reported by a spotter in Potterville.

Isabella County

Mt Pleasant **19** **1548EST** **0** **0** **10K** **Thunderstorm Wind (G53)**
1608EST

Several trees were blown down two miles east of Mt. Pleasant. One tree was also blown down four miles south of Mt. Pleasant, and another tree was blown down five miles north of Weidman. All reports were received from area law enforcement.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MINNESOTA, Central and South Central

NOT RECEIVED.

MINNESOTA, Northeast

NOT RECEIVED.

MINNESOTA, Northwest

Roseau County

Roseau	01	0015CST			0	0	15K		Thunderstorm Wind
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Trees and powerlines were blown down, boats and trailers were flipped over, and fences were pushed over by the strong wind.

Lake Of The Woods County

15 SW Williams	01	0035CST 0045CST			0	0	5K		Thunderstorm Wind
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Many large trees were snapped off or uprooted near Norris Camp.

Beltrami County

16 N Fourtown	01	0040CST 0050CST			0	0	5K		Thunderstorm Wind
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Numerous large trees were snapped off or uprooted in the Beltrami Island State Forest.

Lake Of The Woods County

Baudette	01	0055CST			0	0			Thunderstorm Wind (G51) ^M
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The Baudette ASOS reported a 59 mph wind gust. Many trees were blown down. A storage center sustained major damage when all its sheet metal was torn off and blown across the nearby highway. The flying debris snapped power poles along the highway.

Otter Tail County

New York Mills Arpt	01	0210CST			0	0	20K		Thunderstorm Wind
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Strong winds destroyed a hangar, damaged an airplane and boat inside, and knocked out power to the airport. The airport beacon and beacon tower were also knocked over.

Clay County

Sabin	02	0505CST			0	0	0.50K		Thunderstorm Wind
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Tree branches were downed by the wind.

Otter Tail County

5 N Wrightstown	02	0730CST			0	0			Hail (2.00)
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Wadena County

1 SSW Verndale	02	0740CST			0	0			Hail (1.75)
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Wadena County

1 E Aldrich	02	0745CST			0	0			Hail (1.75)
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Wilkin County

3 N Wolverton	18	1700CST			0	0			Hail (1.50)
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Clay County

Comstock	18	1710CST			0	0			Hail (2.75)
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The large hail caused substantial damage in Comstock. Roofs, windows, and cars were damaged.

Wilkin County

4 N Wolverton	18	1710CST			0	0			Hail (2.75)
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The large hail damaged the windows and siding on buildings.

Clay County

1 E Comstock	18	1717CST			0	0			Hail (2.75)
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Clay County

Sabin	18	1722CST			0	0			Hail (1.00)
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Clay County

1.5 W Baker	18	1740CST 1805CST			0	0			Hail (1.75)
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The hail broke windows and damaged the siding, trim, and gutters on a house.

Clay County

3 E Downer to 4 E Downer	18	1800CST 1803CST	1	25	0	0	1K		Tornado (F1)
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A 14x14 foot one thousand pound shed door was torn off a barn and thrown 150 feet on top of a 24 foot high grain bin. Calf pens were also flipped over.

Clay County

1 N Downer	18	1808CST			0	0			Hail (0.75)
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Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MINNESOTA, Northwest

Becker County

8.5 NW Lake Park	18	1900CST			0	0			Hail (0.75)
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Kittson County

Orleans	18	1900CST 2200CST			0	0			Flash Flood
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Water was over county road 6.

Mahnomen County

16 E Waubun	18	2030CST 2045CST			0	0			Hail (0.75)
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MINNESOTA, Southeast

NONE REPORTED.

MINNESOTA, Southwest

NOT RECEIVED.

MINNESOTA, West

NONE REPORTED.

MINNESOTA, West Central

NOT RECEIVED.

MISSISSIPPI, Central

NOT RECEIVED.

MISSISSIPPI, North

NOT RECEIVED.

MISSISSIPPI, South

NOT RECEIVED.

MISSISSIPPI, Southeast

NOT RECEIVED.

MISSOURI, East

St. Louis (C)

St Louis	19	1530CST			0	0	5K		Lightning
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St. Louis (C)

St Louis	19	1530CST			0	0	10K		Thunderstorm Wind (G52)
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St. Louis Police reported a tree fell on a house in south St. Louis. About 3 blocks away, lightning struck a house and started a fire.

MISSOURI, Lower

NOT RECEIVED.

MISSOURI, Northeast

NOT RECEIVED.

MISSOURI, Northwest

NONE REPORTED.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MISSOURI, Southeast

MOZ076-086>087-100-107>112-114 Perry - Bollinger - Cape Girardeau - Wayne - Carter - Ripley - Butler - Stoddard - Scott - Mississippi - New Madrid

01 0000CST 0 0 Drought
19 1000CST

Moderate drought conditions persisted over southeast Missouri through mid September. A very heavy rainfall event in mid August was the exception to persistent dryness that began in June. Crop losses were mitigated by the August rainfall.

MISSOURI, Southwest

NOT RECEIVED.

MONTANA, Central

MTZ052

Jefferson
01 1630MST 0 0 High Wind (G56)

A wind gust to 65 mph occurred, blowing over a 50 foot cotton wood tree.

Judith Basin County

Moccasin 03 1607MST 0 0 Thunderstorm Wind (G61)

A severe thunderstorm produced a 70 mph wind gust at Moccasin 17NE. A few shingles were blown off a roof.

Fergus County

Winifred 04 2055MST 0 0 Hail (1.00)

A severe thunderstorm produced 1.00 inch hail at Winifred 3E.

MTZ009>010

North Rocky Mountain Front - Eastern Glacier
19 0756MST 0 0 High Wind (G63) ^M
0810MST

A high wind event occurred over the northern Rocky Mountain Front and in the Cut Bank area as a Canadian cold front pushed through the region. Sustained winds of 44 mph with gusts to 54 mph occurred at Cut Bank at 0756 MST. A 72 mph gust at Babb occurred at 0810 MST. Sustained winds of 45 mph with gusts to 66 mph occurred near Waterton Gate at 1300 MST.

Beaverhead County

Dillon 29 1727MST 0 0 Thunderstorm Wind (G61) ^M

A severe thunderstorm produced a 70 mph wind gust in Dillon.

MONTANA, East

Petroleum County

40 NE Winnett 03 1909MST 0 0 Thunderstorm Wind (G50) ^M

58 mph wind reported at Chain Butte RAWS.

Valley County

24 W Opheim 03 1945MST 0 0 Thunderstorm Wind (G50) ^M

58 mph wind reported at Bluff Creek RAWS.

Valley County

Opheim 03 2035MST 0 0 Thunderstorm Wind (G52) ^M

60 mph wind reported at Opheim.

Phillips County

25 S Malta 04 2133MST 0 0 Thunderstorm Wind (G52) ^M

60 mph wind reported 25 miles south of Malta.

Valley County

15 NW Hinsdale 05 0000MST 0 0 Thunderstorm Wind (G52) ^M

60 mph wind reported by spotter 15 miles northwest of Hinsdale.

MONTANA, South

Yellowstone County

20 N Laurel 05 1815MST 0 0 Hail (0.75)

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

MONTANA, South

Stillwater County

10 S Columbus	06	1500MST			0	0			Wild/Forest Fire
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Cow Creek:
Cause: Lightning Strike. Fire grew to 2,000 acres within four hours.
Begin Date: September 6, 2002
End Date: September 8, 2002
Acres Burned: 5495
Total Persons: 113
Structural Loss: 2
Cost: 223,000K

MONTANA, West

NONE REPORTED.

NEBRASKA, Central

Keith County

Lemoyne	08	1545MST			0	0			Thunderstorm Wind (G52)
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Keith County

12 NNW Ogallala	08	1600MST			0	0			Thunderstorm Wind (G52)
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Frontier County

20 SW Stockville	12	1640CST			0	0			Hail (0.88)
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Custer County

7 SW Berwyn	12	2055CST			0	0			Hail (1.00)
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NEBRASKA, East

NOT RECEIVED.

NEBRASKA, Extreme Northeast

NOT RECEIVED.

NEBRASKA, Extreme Southwest

Red Willow County

3 NW Mc Cook	12	1725MST			0	0			Hail (0.75)
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Red Willow County

6 E Mc Cook	12	2000MST 2300MST			0	0			Flash Flood
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Water running over US highway 6-34.

NEBRASKA, South Central

Franklin County

5 SW Hildreth	01	1822CST			0	0	0	0	Hail (1.00)
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Buffalo County

1 E Gibbon	01	1948CST			0	0	0	0	Hail (0.75)
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Hall County

2 W Wood River	01	2008CST			0	0	0	0	Hail (0.75)
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Hall County

Grand Is	01	2029CST			0	0	0	0	Hail (0.75)
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NEBRASKA, West

NONE REPORTED.

NEVADA, North

NOT RECEIVED.

NEVADA, South

NOT RECEIVED.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEVADA, West

NOT RECEIVED.

NEW HAMPSHIRE, North and Central

NOT RECEIVED.

NEW HAMPSHIRE, Southern

NOT RECEIVED.

NEW JERSEY, Northeast

NOT RECEIVED.

NEW JERSEY, South and Northwest

NOT RECEIVED.

NEW MEXICO, Central and North

NOT RECEIVED.

NEW MEXICO, South Central and Southwest

NOT RECEIVED.

NEW MEXICO, Southeast

Eddy County

Whites City	13	1326MST			0	0	0	0	Hail (0.88)
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A severe thunderstorm developed rapidly over Whites City and produced nickel size hail.

Eddy County

11 W Lakewood	15	0550MST 0615MST			0	0	0	0	Flash Flood
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Flash flooding resulted in three feet of water over County Road 28.

Eddy County

4 SW Carlsbad	15	0735MST 0750MST			0	0	5K	0	Flash Flood
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Officials reported flash flooding which resulted in high water up to three feet deep over a low water crossing at Dark Canyon Draw near Hidalgo. One vehicle was stalled in the flood waters. No injuries were reported.

Eddy County

Central Portion	15	0745MST 0845MST			0	0	0	0	Urban/Sml Stream Fld
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Numerous reports of high water in arroyos and low water crossings were received through mid morning.

NEW YORK, Central

Delaware County

Harpersfield	03	0100EST			0	0	20K		Lightning
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Lightning struck and killed three horses, a mare and her two fillies. The horses were in a field on Gunhouse Hill Road. Ten other horses and 13 cattle escaped injury in the same field. 900 customers lost power in Stamford from another lightning strike at about the same time.

Oneida County

Taberg	03	1745EST			0	0	10K		Lightning
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Lightning struck a house on Main Street in the town of Taberg. The damage was confined to the area of the strike. No fire was started. No one was injured.

Oneida County

Camden to Forestport	03	1800EST 1900EST			0	0	15K		Thunderstorm Wind (G50)
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Trees and wires downed by thunderstorm winds. The towns of Camden, Lee, Boonville, and Forestport had trees and wires down.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NEW YORK, Central

Delaware County

2 NE Trout Creek

04 0045EST

0

0

100K

Lightning

Lightning struck a barn on Herrick Hollow Road setting it on fire. The fire completely engulfed the barn. Eight pigs were killed. Four beef cattle were seriously injured.

Sullivan County

Countywide

04 0100EST
0400EST

0

0

50K

Lightning

Multiple thunderstorms with frequent lightning caused power outages countywide during the early morning hours. The Sullivan County 911 center in White Lake got struck by lightning around 3 AM EST. The lightning knocked out the global positioning system clock and the address location technology on dispatchers computers. Lightning knocked out the electricity in Jeffersonville, Callicoon Center, Fosterdale, and Liberty.

NEW YORK, Coastal

NOT RECEIVED.

NEW YORK, East

NYZ042-054-059>060-
063>064-066

Warren - Eastern Rensselaer - Eastern Greene - Western Columbia - Western Ulster - Eastern Ulster - Eastern Dutchess

11 1500EST
1830EST

0

0

118K

High Wind (G67) ^M

During the afternoon of September 11, a steep gradient developed between a cool Canadian high pressure area over the Great Lakes, and a double barreled low pressure area, including the circulation from Hurricane Gustaf, off the mid Atlantic Coast. This scenario resulted in a high wind event across portions of eastern New York. Strong northwesterly wind gusts were clocked as high as 67 mph by a weather spotter in the town of Catskill, Greene County. There were reports of some downed trees throughout eastern portions of that county. Trees were also reported blown down near Kingston, and other places in Ulster County. A large limb of a tree fell onto a large home in Hudson, Columbia County, producing minor damage to that structure. More trees were damaged throughout Columbia County. The town of Pine Plains in eastern Dutchess County was hard hit with several large trees and powerlines down. A large concentration of wind damage took place in southeastern Rensselaer County where Route 20, near Nassau, was closed by many trees toppling onto power lines. A nearby local road was temporarily closed as well. Scattered downed trees and power lines were reported throughout Warren County. The wind temporarily knocked out power to about 1,500 customers in the Queensbury - Lake George Region, about 3,000 customers in the Greater Capital District, and up to 25,000 in the Catskill and Mid Hudson region of eastern New York.

NEW YORK, North

NOT RECEIVED.

NEW YORK, West

NOT RECEIVED.

NORTH CAROLINA, Central

Durham County

Durham

15 1611EST

0

0

Thunderstorm Wind (G50)

Trees and power lines were blown down.

Nash County

East Central Portion

16 1014EST
1100EST

0

0

Flash Flood

Several roads around Rocky Mount were flooded including Halifax Road, Country Club Drive, and Englewood School Road.

Edgecombe County

Northwest Portion

16 1100EST
1200EST

0

0

Flash Flood

Several roads off Highway 97 were closed due to flooding.

Cumberland County

Fayetteville

18 1120EST
1200EST

0

0

Flash Flood

Flooding occurred on Doc Bennett Road.

Guilford County

High Pt

18 1355EST
1500EST

0

0

Flash Flood

Surrat Drive was flooded, with several cars under water.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

NORTH CAROLINA, Southwest

NOT RECEIVED.

NORTH DAKOTA, Central and West

Morton County

10 E Hebron	18	0821CST			0	0			Hail (1.00)
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Emmons County

10 W Linton	18	1645CST			0	0			Hail (0.88)
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Mcintosh County

10 N Ashley	18	1748CST			0	0			Hail (1.00)
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Mcintosh County

18 NE Ashley	18	1830CST			0	0			Hail (0.88)
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La Moure County

8 W La Moure	18	1844CST			0	0			Thunderstorm Wind (G52)
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Dickey County

11 W Merricourt	18	1845CST			0	0			Hail (1.75)
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NORTH DAKOTA, East

Richland County

10 W Wahpeton	01	0100CST			0	0			Hail (0.75)
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The hail was reported along Interstate 29.

Barnes County

10 NW Litchville	02	0230CST			0	0			Hail (0.75)
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Barnes County

7 WNW Litchville	02	0245CST			0	0	0.50K		Thunderstorm Wind
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Tree branches were snapped off in the wind.

Cass County

5 S Horace	02	0500CST			0	0			Hail (0.75)
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Cass County

1 NW Embden	18	1345CST			0	0			Hail (0.75)
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Cass County

3 E Buffalo	18	1405CST			0	0			Hail (0.75)
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Cass County

Page	18	1420CST 1437CST			0	0			Hail (0.75)
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Steele County

Colgate	18	1445CST			0	0			Hail (0.75)
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Cass County

1 W Lynchburg	18	1450CST			0	0			Hail (0.75)
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Ransom County

8 SE Sheldon	18	1451CST			0	0			Hail (1.75)
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Cass County

2 E Amenia	18	1528CST			0	0			Hail (0.75)
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Pembina County

Neché	18	1535CST			0	0			Thunderstorm Wind (G61)
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Richland County

22 W Lithia	18	1535CST			0	0			Hail (0.88)
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Cass County

2 SW Mapleton	18	1600CST			0	0			Hail (0.75)
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Cass County

1 NW Fargo	18	1625CST			0	0			Hail (0.75)
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Cass County

Fargo	18	1632CST 1832CST			0	0			Flash Flood
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Street flooding was reported.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed Injured	Estimated Damage Property Crops	Character of Storm
OHIO, Southwest							
Licking County							
Utica	03	1740EST 1743EST			0 0	3K	Thunderstorm Wind (G50)
			Numerous trees were downed across the northern part of the county.				
Licking County							
5 E St Louisville	03	1805EST 1809EST			0 0	3K	Thunderstorm Wind (G50)
			Large limbs and powerlines were knocked down.				
Warren County							
Franklin	18	1705EST 1708EST			0 0	3K	Thunderstorm Wind (G50)
			Trees were blown down.				
Warren County							
Harveysburg	18	1750EST 1755EST			0 0	25K	Thunderstorm Wind (G60)
			Major structural damage was done to the city maintenance building and three homes. Numerous large trees were also downed across the village. Possibly a microburst.				
Clinton County							
3 NW Wilmington	18	1815EST 1817EST			0 0		Hail (0.75)
Fairfield County							
3 W Amanda	18	1845EST 1848EST			0 0	3K	Thunderstorm Wind (G50)
			Trees were downed near the intersection of US 22 and Justus Road.				
Franklin County							
Bexley	18	2015EST 2019EST			0 0	3K	Thunderstorm Wind (G50)
			Large limbs were knocked down across the southeast side of Columbus. There were also a few trees blown down in the western suburbs.				
Warren County							
Maineville	20	1540EST 1543EST			0 0	3K	Thunderstorm Wind (G50)
			Trees were knocked down.				
Darke County							
Union City	20	1550EST			0 0	10K	Thunderstorm Wind (G51) ^M
			A 30-foot high wall on a livestock building collapsed on the outskirts of town.				
Mercer County							
Countywide	20	1555EST 1610EST			0 0	5K	Thunderstorm Wind (G50)
			Several trees were downed across the county.				
Warren County							
Waynesville	20	1555EST 1558EST			0 0	3K	Thunderstorm Wind (G50)
			Numerous trees were blown down in the village.				
Clinton County							
Port William	20	1600EST 1605EST			0 0	25K	Thunderstorm Wind (G60)
			A roof was ripped off of a hog barn on Sabina Road. Other barns on Starbuck Road sustained minor structural damage, and numerous trees were downed across the northern part of the county.				
Greene County							
7 SE Xenia	20	1606EST 1609EST			0 0	3K	Thunderstorm Wind (G50)
			Numerous trees were downed across the southeast part of the county.				
Auglaize County							
3 S St Marys	20	1636EST 1638EST			0 0	3K	Thunderstorm Wind (G50)
			Several trees were knocked down on Tri Township Road and Route 66A.				
Fayette County							
1 N Jeffersonville	20	1650EST 1653EST			0 0	3K	Thunderstorm Wind (G50)
			Twelve trees measuring between one and two feet in diameter, were knocked down along State Route 41 between Blessing Chapel Road and Cartville Road.				

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OHIO, Southwest

Madison County

South Solon	20	1655EST 1658EST			0	0	3K		Thunderstorm Wind (G50)
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Trees and power poles were downed in town.

OHZ044>045-052>053- Logan - Union - Champaign - Clark - Montgomery - Greene - Butler - Warren - Hamilton
061>062-070>071-071-
077

27	0500EST 1030EST			0	0	25K		Flood
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The remnants of Tropical Storm Isidore tracked into the Ohio Valley during the early and mid morning hours, spreading a large area of heavy tropical rains into southwest and west central Ohio. The heaviest rain fell from just west of Cincinnati north into the Miami Valley and Dayton metropolitan area. Rainfall amounts in these areas were between four and six inches, with a large area of two to four inch rainfall elsewhere. High water caused problems on numerous roadways throughout this region. An antique shop on West Wyoming Road in the western Cincinnati suburbs suffered a roof collapse from water buildup. Two cars were trapped in high water on Somersville-Jacksonburg Road and occupants had to be rescued. Manhole covers throughout Dayton were being blown off due to intense buildup of water pressure.

Miami County

Countywide	27	0730EST 0810EST			0	0		Flash Flood
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High water problems closed numerous roads throughout the county.

Montgomery County

Dayton	27	0730EST 0810EST			0	0		Flash Flood
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Numerous roads were flooded throughout the Dayton metropolitan area. A man had to be rescued when he drove his car into a flooded retention pond near the Dayton Mall.

OKLAHOMA, Eastern

NOT RECEIVED.

OKLAHOMA, Extreme Southeast

NONE REPORTED.

OKLAHOMA, Panhandle

NOT RECEIVED.

OKLAHOMA, Western, Central and Southeast

Kingfisher County

2 NE Kingfisher	12	1545CST			0	0		Thunderstorm Wind (G54) ^M
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Wind was measured by the Oklahoma mesonet.

Kay County

2 E Tonkawa	13	1400CST			0	0	0.50K	Thunderstorm Wind
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Highway signs were blown down on Interstate 35.

Kay County

3 E Tonkawa	13	1400CST			0	0	0.01K	Thunderstorm Wind
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Tree limbs were blown down on Highway 60.

Oklahoma County

Oklahoma City	14	1740CST			0	0		Thunderstorm Wind (G52)
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Pontotoc County

5 ENE Ada to 5 ESE Ada	14	2000CST 2010CST			0	0	60K	Thunderstorm Wind
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Severe straight-line winds produced an intermittent path of damage on the east side of Ada that was about four miles long and three-quarters of a mile wide, and extended from northwest through southeast. The roof of a dairy barn was blown off. Several barns and outbuildings were destroyed, and dozens of trees were blown over.

Pontotoc County

2 S Francis	14	2000CST			0	0		Hail (0.75)
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Pontotoc County

2 S Francis	14	2000CST			0	0	0.01K	Thunderstorm Wind
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Six inch diameter tree limbs were downed.

Storm Data and Unusual Weather Phenomena

Time Length	Path Length	Path Width	Number of Persons	Estimated Damage
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Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
<u>OKLAHOMA, Western, Central and Southeast</u>									
Coal County									
Centrahoma	14	2030CST			0	0	0.01K		Thunderstorm Wind
		Six inch diameter tree limbs were downed.							
Jackson County									
Altus Afb	18	1524CST			0	0			Thunderstorm Wind (G57) ^M
Jackson County									
Altus Afb	18	1530CST			0	0			Thunderstorm Wind (G59) ^M
Kiowa County									
Hobart	18	1546CST			0	0			Thunderstorm Wind (G64) ^M
Kiowa County									
Hobart	18	1550CST			0	0			Thunderstorm Wind (G74) ^M
Washita County									
2 N Lake Vly	18	1615CST			0	0			Hail (0.75)
Kiowa County									
3 SSE Cooperton	18	1630CST			0	0			Hail (0.75)
Greer County									
Mangum	18	1705CST			0	0	30K		Thunderstorm Wind
		A roof of a restaurant was damaged. Trees were downed. Windows were broken, and carports were blown off of two homes.							
Grant County									
.5 W Nash to 1 N Nash	18	1716CST 1719CST	1	200	0	0	0		Tornado (F0)
		This brief tornado was captured on video and resulted in no damage.							
Caddo County									
Boone	18	1720CST			0	0			Hail (4.50)
Alfalfa County									
3 N Goltry	18	1727CST			0	0	0.50K		Thunderstorm Wind
		Power lines were downed.							
Grant County									
4 NW Medford	18	1735CST			0	0			Hail (0.88)
Washita County									
Sentinel	18	1745CST			0	0			Hail (1.00)
Washita County									
Sentinel	18	1745CST			0	0			Thunderstorm Wind (G61)
Custer County									
5 SW Butler	18	1750CST			0	0			Thunderstorm Wind (G69) ^M
		Wind was measured by the Oklahoma mesonet.							
Blaine County									
1 NW Homestead	18	1800CST			0	0			Thunderstorm Wind (G52)
Major County									
8 SE Fairview	18	1800CST			0	0			Thunderstorm Wind (G52)
Custer County									
4 W Arapaho	18	1815CST			0	0			Hail (1.25)
Dewey County									
Putnam	18	1815CST			0	0			Hail (0.75)
Dewey County									
Putnam	18	1815CST			0	0	0.50K		Thunderstorm Wind (G69)
		Power lines were downed.							
Garfield County									
Lahoma	18	1815CST			0	0	0.01K		Thunderstorm Wind
		Large tree limbs were downed.							
Caddo County									
5 SW Anadarko	18	1820CST			0	0			Hail (0.88)
Dewey County									
3 N Putnam	18	1825CST			0	0			Thunderstorm Wind (G64) ^M
		Wind was measured by the Oklahoma mesonet.							
Kay County									
5 NW Blackwell	18	1829CST 1830CST	0.3	25	0	0	0		Tornado (F0)
		This brief, non-mesocyclonic tornado was captured on video by storm chasers. No damage was observed or reported.							

Storm Data and Unusual Weather Phenomena

September 2002

September 2002									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
Killed	Injured	Property	Crops						
<u>OKLAHOMA, Western, Central and Southeast</u>									
Grant County									
Jefferson	18	1830CST			0	0			Thunderstorm Wind (G52)
Grant County									
5 E Nash	18	1830CST			0	0	25K		Thunderstorm Wind
Five power poles were downed on US 64, one landing on a vehicle.									
Major County									
4 SE Isabella	18	1845CST			0	0	0.50K		Thunderstorm Wind
A one foot diameter tree was blown over.									
Kay County									
Nardin	18	1850CST			0	0			Thunderstorm Wind (G61)
Kay County									
4 NW Blackwell	18	1857CST			0	0			Hail (0.75)
Kay County									
1 W Tonkawa	18	1900CST			0	0	1K		Thunderstorm Wind
A shed was blown over.									
Kay County									
1 N Braman	18	1907CST			0	0			Hail (1.75)
Kay County									
1 W Blackwell	18	1910CST			0	0	2K		Thunderstorm Wind
The roof of a barn was blown off.									
Garfield County									
Enid	18	1915CST			0	0			Hail (0.75)
Kay County									
Braman	18	1916CST			0	0			Hail (0.75)
Kay County									
Braman	18	1916CST			0	0			Hail (0.75)
Kay County									
Ponca City	18	1917CST			0	0			Thunderstorm Wind (G55) ^M
Garfield County									
Enid	18	1920CST			0	0			Hail (0.88)
Garfield County									
Enid	18	1920CST			0	0			Hail (0.88)
Blaine County									
Longdale	18	1930CST			0	0	0.50K		Thunderstorm Wind
A ten inch diameter tree was downed.									
Caddo County									
1 S Hinton	18	1930CST			0	0			Hail (0.75)
Blaine County									
Homestead	18	1940CST			0	0	0.50K		Thunderstorm Wind
Power lines were downed.									
Canadian County									
3 W Karnes Station	18	1940CST			0	0			Thunderstorm Wind (G61)
Kingfisher County									
3 N Hennessey	18	1940CST			0	0			Thunderstorm Wind (G52)
Canadian County									
3 W Karnes Station	18	1950CST			0	0			Hail (2.75)
Garfield County									
Garber	18	2000CST			0	0	2K		Thunderstorm Wind
Trees were downed.									
Canadian County									
3 W Karnes Station	18	2020CST			0	0			Hail (1.00)
Jackson County									
6 SW Duke	18	2035CST			0	0			Thunderstorm Wind (G69)
Kingfisher County									
Okarche	18	2040CST			0	0			Thunderstorm Wind (G52)
Kay County									
Ponca City	18	2043CST			0	0	0		Flash Flood
Numerous streets were covered with water.									
Canadian County									
1 W Okarche	18	2045CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

OKLAHOMA, Western, Central and Southeast

Logan County

4 SW Navina 18 2105CST 0 0 Hail (0.88)

Oklahoma County

6 NW Edmond 18 2120CST 0 0 Thunderstorm Wind (G52)

Kingfisher County

Cashion 18 2127CST 0 0 Hail (0.75)

Kingfisher County

Cashion 18 2127CST 0 0 Thunderstorm Wind (G52)

Payne County

6 W Stillwater 18 2205CST 0 0 Hail (0.88)

A large line of strong to severe thunderstorms developed over western Oklahoma during the late afternoon of the 18th and moved eastward as the evening progressed. Mangum, in Greer County, sustained structural damage inside the city limits, and there were two, brief, weak tornadoes verified over northern Oklahoma. One tornado formed near Nash in Grant County, while the other formed near Braman in Kay County. Both tornadoes were rated F0.

Johnston County

4 NE Tishomingo 19 0510CST 0 0 50K Thunderstorm Wind

A large tree limb fell through the roof of a house, and a tree fell on two vehicles.

Garvin County

4 N Elmore City 27 0300CST 0 0 4K Thunderstorm Wind

Trees were downed, and a barn was destroyed.

OREGON, Central and East

Wallowa County

6 SW Wallowa 15 1330PST 0 0 Wild/Forest Fire
19 2359PST

Around 200 firefighters were assigned to the Anniversary fire, which was sparked by lightning on an unknown date near the bottom of Big Canyon. Three engines, one dozer, four air tankers, one helicopter, and two water tenders were assigned to this fire, which burned 290 acres.

OREGON, Northwest

NOT RECEIVED.

OREGON, Southeast

NOT RECEIVED.

OREGON, Southwest

NOT RECEIVED.

PACIFIC

NOT RECEIVED.

PENNSYLVANIA, Central

Warren County

Warren 03 1448EST 0 0 Thunderstorm Wind (G50)

Trees and power lines were down near Warren.

Mckean County

Kane 03 1536EST 0 0 Thunderstorm Wind (G50)

Trees and power lines were reported down near Kane.

Dauphin County

Hershey 27 1900EST 0 0 Thunderstorm Wind (G50)

Trees were reported down on power lines in Hershey.

Dauphin County

Middletown 27 1900EST 0 0 Thunderstorm Wind (G50)

Large tree limbs were down in Middletown.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

PENNSYLVANIA, Central

Adams County

Mc Sherrystown	27	1900EST			0	0			Thunderstorm Wind (G50)
Large tree limbs were reported down on power lines in McSherrystown.									

Lebanon County

Lebanon	27	1910EST			0	0			Thunderstorm Wind (G50)
Trees were down in Lebanon.									

York County

9 E Hanover	27	1910EST			0	0			Thunderstorm Wind (G50)
Trees were down in Codorus, 9 miles east of Hanover.									

Lancaster County

5 E Intercourse	27	1910EST			0	0			Thunderstorm Wind (G50)
Trees were down in Spring Garden.									

PENNSYLVANIA, East

NOT RECEIVED.

PENNSYLVANIA, Northeast

Luzerne County

Lehman	12	1615EST			0	2	5K		Thunderstorm Wind
A tree fell on a pickup truck on Old Route 115 in the town of Lehman. The tree crushed the cab of the truck injuring the two occupants.									

PENNSYLVANIA, Northwest

NOT RECEIVED.

PENNSYLVANIA, West

Mercer County

Fredonia	03	1545EST			0	0	2K		Thunderstorm Wind
Thunderstorm winds downed a few large trees and power lines.									

Lawrence County

3 E Ellwood City	03	1736EST			0	0	10K		Thunderstorm Wind
Thunderstorm winds downed numerous trees along State Route 288.									

Washington County

Washington	18	2310EST			0	0			Hail (0.75)
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PUERTO RICO

NOT RECEIVED.

RHODE ISLAND

NOT RECEIVED.

SOUTH CAROLINA, Central

Orangeburg County

Orangeburg	14	1530EST			0	0		0	Thunderstorm Wind (G60)
EOC reported numerous trees down in the vicinity of Orangeburg.									

Saluda County

7 NNE Saluda	14	1622EST			0	0	0	0	Thunderstorm Wind (G50)
Highway dept. reported some trees down on hwy 121.									

Aiken County

Aiken to 3 N Aiken	14	1637EST 1647EST			0	0	0	0	Thunderstorm Wind (G50)
Emergency manager reported large branches down on hwy 19 and US 1.									

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

SOUTH CAROLINA, North Coastal

NOT RECEIVED.

SOUTH CAROLINA, Northwest

NOT RECEIVED.

SOUTH CAROLINA, South Coastal

SCZ040-042>045-047>050 **Allendale - Hampton - Northern Colleton - Dorchester - Berkeley - Jasper - Beaufort - Southern Colleton - Charleston**

01	0000EST				0	0			Drought
30	2359EST								

Moderate drought conditions persisted throughout the month as several tropical systems impacted the region producing copious rainfall.

Charleston County

3 NE Charleston Afb to 3.3 NE Charleston Afb	28	1720EST 1723EST	0.3	25	0	0			Tornado (F0)
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Several spotters tracked a funnel cloud across North Charleston. Funnel finally dipped down briefly into some trees where the top was taken out of several trees and some limbs were downed. The brief touch down was near the intersection of U.S. 52 and Otranto Road, which is near the Charleston and Berkeley County line.

Berkeley County

3.6 S Goose Creek to 3.4 SSE Goose Creek	28	1723EST 1727EST	0.2	25	0	0			Tornado (F0)
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Spotters continued to watch funnel cloud move out of the North Charleston area and into Berkeley County. Funnel continued to take out tops of trees as it moved into Berkeley County.

SOUTH DAKOTA, Central and North

NOT RECEIVED.

SOUTH DAKOTA, Southeast

NOT RECEIVED.

SOUTH DAKOTA, West

Ziebach County

9 W Cherry Creek	07	2057MST			0	0	0		Thunderstorm Wind (G54) ^M
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Pennington County

Wall to 7 S Wall	07	2100MST			0	0	10K		Thunderstorm Wind (G79) ^M
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Severe thunderstorm winds hit Wall and areas south of town. A building under construction was destroyed and several fences in town were blown down. A resident 7 miles south of town measured a 91 mph wind gust with an unknown "wind gauge".

SDZ001-031-073

Harding - Pennington Co Plains - Southern Meade Co Plains

18	0151MST 0943MST				0	0	0		High Wind (G53) ^M
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Behind a cold front sustained winds increased to 35 to 45 mph across portions of northwestern South Dakota. The Rapid City airport reported a wind gust to 61 mph along with these sustained winds.

TENNESSEE, Central

NOT RECEIVED.

TENNESSEE, East

NOT RECEIVED.

TENNESSEE, West

NOT RECEIVED.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property	Estimated Damage Crops	Character of Storm
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TEXAS, Central

NOT RECEIVED.

TEXAS, Central Southeast

NOT RECEIVED.

TEXAS, Extreme West

NOT RECEIVED.

TEXAS, Mid - South

NOT RECEIVED.

TEXAS, North

NOT RECEIVED.

TEXAS, North Panhandle

NOT RECEIVED.

TEXAS, Northeast

Smith County

2 N Tyler

19 1300CST

Several large trees down over CR 285.

0

0

Thunderstorm Wind (G62)

Smith County

3 S Tyler

19 1305CST

Numerous large trees down over FM 2964.

0

0

Thunderstorm Wind (G62)

TEXAS, South

NOT RECEIVED.

TEXAS, South Central

NOT RECEIVED.

TEXAS, South Panhandle

NOT RECEIVED.

TEXAS, Southeast

NOT RECEIVED.

TEXAS, West

Reeves County

17 WNW Balmorhea to
15 WNW Balmorhea

13 1430CST
1440CST

2

75

0

0

0

0

Tornado (F0)

A truck driver traveling on Interstate 10 in western Reeves County reported and photographed a tornado. The tornado was located just north of the interstate...a few miles east of the Interstate 10 and Interstate 20 junction.

Pecos County

Belding

13 1612CST

Local law officials reported large trees blown down by thunderstorm winds.

0

0

0

0

Thunderstorm Wind (G57)

Ward County

2 S Monahans to
1 S Monahans

13 1630CST
1634CST

0

0

50K

0

Thunderstorm Wind (G70)

Local media reported that a large transmitter tower was blown down near Monahans by severe thunderstorm winds.

Loving County

9 NW Mentone

13 1645CST

0

0

0

0

Thunderstorm Wind (G52)

Storm Data and Unusual Weather Phenomena

Time	Path	Path	Number of	Estimated
From	To	To	Employees	Cost
07:00	08:00	09:00	10:00	11:00
12:00	13:00	14:00	15:00	16:00
17:00	18:00	19:00	20:00	21:00
22:00	23:00	24:00	25:00	26:00
27:00	28:00	29:00	30:00	31:00
32:00	33:00	34:00	35:00	36:00
37:00	38:00	39:00	40:00	41:00
42:00	43:00	44:00	45:00	46:00
47:00	48:00	49:00	50:00	51:00
52:00	53:00	54:00	55:00	56:00
57:00	58:00	59:00	60:00	61:00
62:00	63:00	64:00	65:00	66:00
67:00	68:00	69:00	70:00	71:00
72:00	73:00	74:00	75:00	76:00
77:00	78:00	79:00	80:00	81:00
82:00	83:00	84:00	85:00	86:00
87:00	88:00	89:00	90:00	91:00
92:00	93:00	94:00	95:00	96:00
97:00	98:00	99:00	100:00	101:00
102:00	103:00	104:00	105:00	106:00
107:00	108:00	109:00	110:00	111:00
112:00	113:00	114:00	115:00	116:00
117:00	118:00	119:00	120:00	121:00
122:00	123:00	124:00	125:00	126:00
127:00	128:00	129:00	130:00	131:00
132:00	133:00	134:00	135:00	136:00
137:00	138:00	139:00	140:00	141:00
142:00	143:00	144:00	145:00	146:00
147:00	148:00	149:00	150:00	151:00
152:00	153:00	154:00	155:00	156:00
157:00	158:00	159:00	160:00	161:00
162:00	163:00	164:00	165:00	166:00
167:00	168:00	169:00	170:00	171:00
172:00	173:00	174:00	175:00	176:00
177:00	178:00	179:00	180:00	181:00
182:00	183:00	184:00	185:00	186:00
187:00	188:00	189:00	190:00	191:00
192:00	193:00	194:00	195:00	196:00
197:00	198:00	199:00	200:00	201:00
202:00	203:00	204:00	205:00	206:00
207:00	208:00	209:00	210:00	211:00
212:00	213:00	214:00	215:00	216:00
217:00	218:00	219:00	220:00	221:00
222:00	223:00	224:00	225:00	226:00
227:00	228:00	229:00	230:00	231:00
232:00	233:00	234:00	235:00	236:00
237:00	238:00	239:00	240:00	241:00
242:00	243:00	244:00	245:00	246:00
247:00	248:00	249:00	250:00	251:00
252:00	253:00	254:00	255:00	256:00
257:00	258:00	259:00	260:00	261:00
262:00	263:00	264:00	265:00	266:00
267:00	268:00	269:00	270:00	271:00
272:00	273:00	274:00	275:00	276:00
277:00	278:00	279:00	280:00	281:00
282:00	283:00	284:00	285:00	286:00
287:00	288:00	289:00	290:00	291:00
292:00	293:00	294:00	295:00	296:00
297:00	298:00	299:00	300:00	301:00
302:00	303:00	304:00	305:00	306:00
307:00	308:00	309:00	310:00	311:00
312:00	313:00	314:00	315:00	316:00
317:00	318:00	319:00	320:00	321:00
322:00	323:00	324:00	325:00	326:00
327:00	328:00	329:00	330:00	331:00
332:00	333:00	334:00	335:00	336:00
337:00	338:00	339:00	340:00	341:00
342:00				

Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm
TEXAS, West									
Ector County 20 SW Odessa	13	1710CST 1715CST			0	0	30K	0	Thunderstorm Wind (G70)
									Two residences along Interstate 20 in southwest Ector County received damage from severe thunderstorm winds. The roof of a mobile home was destroyed, windows were broken, and a barn was destroyed.
Winkler County Kermit	13	1715CST			0	0	10K	0	Thunderstorm Wind (G65)
									A well developed bow echo developed and moved east across Winkler County. The Kermit PD reported damaging winds up to 75 MPH. Large trees were blown down along with power poles. A few tin roofs received minor damage.
Borden County 2 SE Gail	13	1720CST			0	0	0	0	Thunderstorm Wind (G56) ^M
									A severe thunderstorm wind gust was measured by the Texas Mesonet.
Ector County 8 W Odessa to 6 W Odessa	13	1725CST 1735CST			0	0	150K	0	Thunderstorm Wind (G70)
									Numerous reports of damaging winds were received from the area around West Odessa. Although reports indicated wind speeds ranging from 80 to 100 MPH, a NWS damage survey concluded that maximum wind gusts were likely 80 MPH. One mobile home was completely destroyed. Seven homes received what was termed major damage, including severe roof or siding damage. Five additional homes had minor damage, restricted to mainly broken windows. Large trees and power poles were also blown down. No injuries were reported.
Ector County 8 W Odessa	13	1735CST 1740CST			0	0	0	0	Hail (1.75)
									Several reports of large hail ranging from quarter to golfball size were received from West Odessa.
Presidio County Presidio	13	1740CST			0	0	0	0	Thunderstorm Wind (G61)
Presidio County Presidio	13	1740CST 1800CST			0	0	0	0	Urban/Sml Stream Fld
									Minor street flooding was reported in the city.
Midland County 10 W Midland	13	1750CST			0	0	0	0	Thunderstorm Wind (G52)
Andrews County 10 S Andrews	13	1752CST			0	0	0	0	Thunderstorm Wind (G52)
									Reported on Highway 385.
Reeves County 2 SE Pecos	13	1800CST			0	0	0	0	Thunderstorm Wind (G56) ^M
									A severe thunderstorm wind gust of 64 MPH was measured at the Pecos Municipal Airport.
Midland County Midland	13	1809CST			0	0	0	0	Thunderstorm Wind (G52)
									Severe thunderstorms resulted in 60 MPH winds at the Scarborough Sports Complex just before a high school football game was scheduled to begin. No injuries or damage was reported.
Ector County Odessa	13	1810CST 1815CST			0	0	15K	0	Thunderstorm Wind (G61)
									A secondary area of severe winds developed, and moved into the Odessa area. These winds were associated with a broad area of weak convection which developed in the wake of the more significant severe thunderstorm previously listed. This event resulted in damaging winds affecting the Permian Basin Fair. Windows were blown out of approximately ten vehicles, and several tents were blown down. No injuries were reported.
Ector County 5 ENE Gardendale	13	1827CST			0	0	0	0	Thunderstorm Wind (G52)
Midland County 13 NW Midland	13	1827CST			0	0	0	0	Thunderstorm Wind (G52)
Martin County Lenorah	13	1830CST			0	0	0	0	Thunderstorm Wind (G52)
Pecos County Ft Stockton	13	1837CST 1850CST			0	0	10K	0	Thunderstorm Wind (G70) ^M
									The ASOS at Fort Stockton measured a 58 MPH wind gust. Numerous reports of winds up to 80 MPH were received in the following fifteen minutes. Some of the reports indicated damage to large trees, power poles, and road signs.
Ector County Odessa	13	1840CST 1920CST			0	0	5K	0	Urban/Sml Stream Fld
									Moderate street flooding was reported in parts of Odessa, resulting in at least one stalled car. No injuries were reported.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, West

Borden County

17 NE Gail **13** **2035CST** **0** **0** **0** **0** **Thunderstorm Wind (G58)** ^M

A severe thunderstorm wind gust was measured by the Texas Mesonet.

The afternoon and evening of the 13th brought an active severe weather situation to West Texas. The primary severe weather mode was multicell storm structures with damaging winds. However, a few storms exhibited supercellular characteristics, and one tornado was documented in western Reeves County. Large hail to the size of golfballs was also reported. The most significant damage reports were received from the West Odessa and Odessa areas in Ector County. Winds up to 100 MPH were reported with the first severe storm to impact that area, but those reports could not be substantiated by a NWS damage survey. A second complex of storms affecting the area resulted in 70 MPH winds. Damage was also reported from thunderstorm winds in Kermit and Fort Stockton.

Ector County

2 N Odessa to **14** **1810CST** **0** **0** **0** **0** **Hail (1.25)**
8 W Odessa **1815CST**

Several reports of large hail were received from the Odessa area...as a severe thunderstorm developed and moved south. The storm was short lived, but produced hail to the size of half dollars.

Pecos County

Imperial **14** **1830CST** **0.1** **50** **0** **0** **0** **0** **Tornado (F0)**

Officials in Pecos County reported a brief tornado near the city of Imperial. No damage or injuries were reported. The tornado formed as an outflow boundary interacted with a severe storm.

Presidio County

Presidio **15** **1900CST** **0** **0** **0** **0** **Thunderstorm Wind (G52)**
1925CST

Borden County

17 NE Gail **18** **1935CST** **0** **0** **0** **0** **Thunderstorm Wind (G54)** ^M

A severe thunderstorm wind gust was measured by the Texas Mesonet.

Midland County

Midland to **18** **2025CST** **0** **0** **100K** **0** **Thunderstorm Wind (G65)**
Greenwood **2050CST**

Damaging thunderstorm winds were reported from the city of Midland to Greenwood. A total of nineteen power poles were blown down by the winds. The hardest hit areas were near Greenwood, where a NWS damage survey indicated that several weakly constructed homes received minor roof damage, along with one business. In addition, windows were blown out of seven vehicles in a church parking lot. No injuries were reported.

Howard County

5 SE Big Spring **18** **2050CST** **0** **0** **0** **0** **Hail (0.75)**
2100CST

Reeves County

12 N Pecos to **18** **2120CST** **0** **0** **10K** **0** **Thunderstorm Wind (G70)**
Pecos **2130CST**

Local officials reported severe thunderstorm wind gusts which blew down powerlines along Highway 285 from 12 miles north of Pecos to the city.

Glasscock County

Countywide **18** **2200CST** **0** **0** **35K** **0** **Thunderstorm Wind (G70)**

The local utility company reported that powerlines were blown down across a large part of Glasscock County.

Martin County

Stanton **18** **2200CST** **0** **0** **0** **0** **Thunderstorm Wind (G56)** ^M

Thunderstorms producing damaging winds affected parts of the Permian Basin and the Trans Pecos region. The most significant damage was in Midland County. Elsewhere, the damage was restricted to mainly power lines and poles.

TEXAS, Western North

Knox County

5 W Benjamin **18** **1710CST** **0** **0** **2K** **Thunderstorm Wind**

Power poles were downed.

Knox County

3 E Vera **18** **1755CST** **0** **0** **Thunderstorm Wind (G52)**

Baylor County

5 NE Seymour **18** **1825CST** **0** **0** **Thunderstorm Wind (G52)**

Baylor County

5 NE Seymour **18** **1830CST** **0** **0** **Thunderstorm Wind (G52)**

Archer County

5 N Mankins **18** **1928CST** **0** **0** **Hail (0.75)**

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

TEXAS, Western North

Archer County

Mankins	18	1935CST			0	0			Hail (0.88)
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Wichita County

4 SW Wichita Falls	18	2005CST			0	0			Hail (0.88)
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UTAH, East

NOT RECEIVED.

UTAH, West and Central

NOT RECEIVED.

VERMONT, North and Central

NOT RECEIVED.

VERMONT, South

NONE REPORTED.

VIRGIN ISLANDS

NOT RECEIVED.

VIRGINIA, East

NOT RECEIVED.

VIRGINIA, Extreme Southwest

NOT RECEIVED.

VIRGINIA, North

NOT RECEIVED.

VIRGINIA, Northwest

NONE REPORTED.

VIRGINIA, Southwest

Amherst County

8 NE Amherst	03	1615EST 1645EST			0	0	0		Flash Flood
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Thunderstorms rains on the 3rd washed out a gravel road and flooded and closed several roads 8 miles northeast of Amherst.

Patrick County

5 SE Stuart	04	1537EST			0	0			Hail (0.88)
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Thunderstorms during the afternoon of the 4th produced hail up to nickel size.

Halifax County

Scottsburg	15	1810EST			0	0	0		Thunderstorm Wind
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Charlotte County

Red Oak	15	1820EST			0	0	0		Thunderstorm Wind
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Thunderstorms winds on the 15th downed trees in Red Oak, and downed large trees onto roads in Scottsburg.

Pulaski County

6 NW Dublin to 4 N Fairlawn	18	1810EST 2100EST			0	0	3K		Flash Flood
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Pulaski County

Dublin	18	1820EST 2000EST			0	0			Flash Flood
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Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

VIRGINIA, Southwest

Pulaski County

Fairlawn	18	1820EST 2040EST			0	0			Flash Flood
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Thunderstorm rains during the evening of the 18th produced significant flash flooding.

Heavy thunderstorm rains caused flash flooding in numerous locations along Back Creek, from 6 miles northwest of Dublin to 4 miles north of Fairlawn. Flooding affected mainly farm land with damage to fencing and gravel roads. One man was stranded in his car and rescued from near 4 miles northwest of Dublin.

Heavy thunderstorm rains also flooded and closed streets in Fairlawn and Dublin.

WASHINGTON, Northeast

NOT RECEIVED.

WASHINGTON, Northwest

Thurston County

Lacey	05	1700PST			0	0	20K		Lightning
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Lightning struck a garage, a DOT building and a tree in the Olympia area. The garage, filled with antiques, was destroyed. The DOT building lost power and the tree was split.

WASHINGTON, Southeast

Yakima County

18 W White Swan	13 23	0500PST 2359PST			0	0			Wild/Forest Fire
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The Ewe Neck fire was a lightning sparked fire which burned 100 acres. A total of 250 firefighters fought this fire, along with retardant drops by planes and helicopters.

WASHINGTON, Southwest

NOT RECEIVED.

WEST VIRGINIA, East

NOT RECEIVED.

WEST VIRGINIA, North

Hancock County

2 E Moscow	03	1825EST			0	0	1K		Thunderstorm Wind
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Thunderstorm winds downed a large tree in the Tomlinson Run Park area, blocking traffic for a short period of time.

Marshall County

Glendale	18	2220EST			0	0	1K		Thunderstorm Wind
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Thunderstorm winds downed a large tree onto State Route 86.

Ohio County

Wheeling	18	2225EST			0	0	10K		Thunderstorm Wind
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Thunderstorm winds downed numerous trees and power lines.

Preston County

Rowlesburg	27	1440EST			0	0	5K		Thunderstorm Wind
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Thunderstorm winds downed several large trees.

WEST VIRGINIA, Southeast

NONE REPORTED.

WEST VIRGINIA, West

WVZ005>011- 013>020-024>040- 046>047	Wayne - Cabell - Mason - Jackson - Wood - Pleasants - Tyler - Lincoln - Putnam - Kanawha - Roane - Wirt - Calhoun - Ritchie - Doddridge - Mingo - Logan - Boone - Clay - Braxton - Gilmer - Lewis - Harrison - Taylor - McDowell - Wyoming - Raleigh - Fayette - Nicholas - Webster - Upshur - Barbour - Pocahontas - Randolph
01 25	0000EST 2300EST
	0 0
	Drought

The hot and dry pattern of August lingered into much of September. The hottest weather was during the first 10 days of the month. Readings in the 90s were common across the lowlands. Parkersburg had high temperature records of 97 degrees on the 7th, then 96

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	

WEST VIRGINIA, West

degrees on both the 8th and 9th. In the southern mountains, Beckley set or tied 5 daily record high temperatures during early September. By the second and third weeks of the month, drought conditions were surfacing. The remnants of Hurricane Isodore helped to generate widespread rains of 1 to 2 inches on the 26th and 27th. The rain combined with cooler temperatures, to increase surface water flows and reduce stress to the late season vegetation.

Raleigh County									
5 E Daniels	18	1735EST			0	0	1K		Thunderstorm Wind
Harrison County									
Wolf Summit	18	2120EST			0	0	1K		Hail (1.75)
Harrison County									
Clarksburg	18	2125EST			0	0			Hail (1.00)

WISCONSIN, Extreme Southwest

NOT RECEIVED.

WISCONSIN, Northeast

NOT RECEIVED.

WISCONSIN, Northwest

NOT RECEIVED.

WISCONSIN, Southeast

NOT RECEIVED.

WISCONSIN, Southwest

Buffalo County									
Alma	02	0025CST			0	0	0.50K		Thunderstorm Wind (G52)
Law enforcement officials reported several trees blown down.									

Taylor County									
1 NW Gilman to 7 W Medford	02	1610CST 1650CST	17	75	0	0	3.9M		Tornado (F2)
Taylor County									
7 SE Perkinstown	02	1640CST			0	0	70K		Thunderstorm Wind (G70)
Taylor County									
3 S Perkinstown	02	1640CST			0	0	30K		Thunderstorm Wind (G70)
Clark County									
8 SE Owen	02	1710CST			0	0	3.5K		Hail (1.00)

A tornado touched down about a mile northwest of Gilman (Taylor County) and moved southeast into the village a couple minutes later. A few trees and homes were lightly damaged before the tornado hit the Gilman school. The roof was blown off the school gymnasium, where the high school football team had been seeking cover a minute before moving into the hallways and interior rooms. Debris was blown from the school onto the nearby football field and into homes east of Gilman. The tornado kept tracking southeast into the Chequamegon National Forest, producing occasional house damage and knocking down hundreds of trees. The path of the storm crossed Trucker Lane, Winter Sports Road and damaged several homes near Sawyer Avenue as it increased in size and strength. The worst damage was when the top story of a two story house was completely removed along Sawyer Avenue shortly before the tornado dissipated before crossing Highway 64 west of Medford (Taylor County). There were no reports of deaths or injuries. This was the first confirmed tornado in Taylor County since July 30, 1977.

Buffalo County									
Mondovi	29	2105CST			0	0			Hail (0.75)
Clark County									
5 NW Neillsville	29	2221CST			0	0			Thunderstorm Wind (G52)
Jackson County									
4 S Price	29	2245CST			0	0			Hail (0.75)
Storm spotters and the public reported dime size hail and estimated wind gusts of 60 mph.									

Buffalo County									
10 N Waumandee	30	1625CST			0	0			Hail (0.75)

Storm Data and Unusual Weather Phenomena

September 2002

September 2002									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
					Killed	Injured	Property	Crops	
<u>WISCONSIN, Southwest</u>									
Buffalo County									
Waumandee	30	1630CST			0	0	1.2K	3K	Hail (1.25)
Taylor County									
Gilman	30	1645CST			0	0	1.5K		Hail (1.75)
Taylor County									
Perkinstown	30	1704CST			0	0	1K		Hail (1.75)
Jackson County									
Franklin	30	1710CST			0	0			Hail (0.88)
Trempealeau County									
Ettrick	30	1710CST			0	0			Hail (0.75)
Taylor County									
2 SW Chelsea to 1.5 SW Chelsea	30	1745CST 1750CST	0.5	100	0	0	20K	5K	Tornado (F0)
Taylor County									
2 NE Chelsea	30	1750CST			0	0	5K		Thunderstorm Wind (G60)
Taylor County									
3 E Westboro	30	1758CST			0	0	2.5K		Thunderstorm Wind (G60)
Clark County									
5 SW Loyal	30	1800CST			0	0	0.75K		Hail (1.00)
Clark County									
5 SW Loyal	30	1800CST			0	0	0.70K		Thunderstorm Wind (G58)
Clark County									
7 S Loyal to 6.5 S Loyal	30	1802CST 1805CST	0.2	50	0	0			Tornado (F0)
Clark County									
7 E Loyal	30	1815CST			0	0	3.5K		Hail (1.75)

A tornado touched down 2 miles southwest of the town of Chelsea (Taylor County). The tornado caused damage to a residence near the intersection of Fox Avenue and Settlement Road. A barn and numerous trees were also downed. There were no injuries or deaths reported. The tornado was on the ground for about one-half mile and was approximately 100 yards wide as it moved northeast. The parent thunderstorm continued northeast after the tornado lifted, causing numerous funnels and sporadic tree damage from about 1.5 miles southwest of Chelsea, through 3 miles east of Westboro (Taylor County). These downburst winds were estimated at 60 to 70 mph. However, no further tornadoes were confirmed along this path. Another tornado touched down briefly in a field just south of Loyal (Clark County), but did no damage. Spotters, law enforcement officials and amateur radio operators also reported hail ranging in size from dimes to as large as golf balls.

WISCONSIN, West

NOT RECEIVED.

WYOMING, Central and West

Fremont County

18 S Lander	01 03	0000MST 1500MST	0	0	Wild/Forest Fire
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The Pass Creek Wildfire continued to burn into early September. The fire burned 13,433 acres in August and September.

Lincoln County

20 N Kemmerer	01 08	0000MST 1500MST	0	0	Wild/Forest Fire
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The Commissary Ridge Wildfire was started by lightning. The fire burned 3,500 acres. Also, one summer home and one outbuilding were destroyed.

Fremont County

(Riv)Riverton Rgnl A	05	1323MST	0	0	Thunderstorm Wind (G50) ^M
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Fremont County

Shoshoni	05	1405MST	0	0	Thunderstorm Wind (G52)
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Hot Springs County

Thermopolis	05	1415MST 1420MST	0	0	Thunderstorm Wind (G52)
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The thunderstorm winds downed trees.

Storm Data and Unusual Weather Phenomena

September 2002

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Killed	Injured	Property	Estimated Damage Crops	Character of Storm
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WYOMING, Extreme Southwest

NOT RECEIVED.

WYOMING, North Central

NONE REPORTED.

WYOMING, Northeast

Weston County

6 N Clareton	03	1845MST			0	0	25K	Thunderstorm Wind (G58)
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Severe thunderstorm winds damaged a barn wall and flipped over ranch trailers north of Clareton.

WYOMING, Southeast

Carbon County

12 S Encampment	17	1020MST			1	0		Lightning
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Lightning struck a tree and woman standing under it at the Pickaroon Campground in Medicine Bow National Forest.
F51UT